

Item: A07 KEY: E  
 Identify location of organs in the body. (Life Science)  
 Difficulty: 480

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	5580	3.3	5.4	6.7	13.3	69.5	1.7	69.5	0.0	0.3	1.4	73.9	64.8
Austria	3008	0.5	5.1	0.8	14.1	77.8	1.7	77.8	0.3	0.1	1.3	79.7	75.4
Belgium (Fl)	2767	0.6	4.4	0.8	13.6	79.5	1.2	79.5	0.0	0.0	1.1	80.4	78.6
Belgium (Fr)	2272	1.0	10.2	1.4	43.2	40.6	3.5	40.6	0.7	0.1	2.8	38.7	42.4
Bulgaria	1798	1.8	3.4	4.2	5.4	81.9	3.3	81.9	2.5	0.0	0.9	81.9	81.8
Canada	8188	2.0	9.2	6.1	19.0	62.3	1.3	62.3	0.6	0.0	0.8	64.4	60.0
Colombia	2655	2.1	6.3	3.5	14.6	67.3	6.2	67.3	1.7	1.0	3.5	70.1	64.5
Cyprus	2927	1.9	6.3	3.4	23.7	62.0	2.8	62.0	1.0	0.2	1.6	69.7	54.6
Czech Republic	3334	0.5	11.3	0.2	11.2	75.0	1.7	75.0	1.4	0.0	0.3	79.5	70.4
Denmark	2066	2.9	6.4	11.0	17.6	52.0	10.1	52.0	2.6	0.5	7.0	55.0	49.3
England	1780	4.3	4.7	8.7	18.5	60.6	3.1	60.6	0.0	0.0	3.1	62.4	59.1
France	3006	1.4	18.8	1.3	35.8	40.2	2.4	40.2	0.9	0.1	1.4	36.8	43.4
Germany	2887	1.0	5.4	0.6	17.3	72.0	3.7	72.0	2.5	0.2	1.0	75.5	68.4
Greece	3922	1.2	5.3	2.9	21.4	65.7	3.5	65.7	2.2	0.1	1.2	73.6	58.4
Hong Kong	3409	1.1	1.9	2.0	19.5	74.8	0.7	74.8	0.1	0.0	0.6	71.9	77.1
Hungary	3066	0.4	4.1	2.0	21.8	64.5	7.2	64.5	0.0	0.3	6.9	68.3	60.8
Iceland	1952	2.9	7.1	6.5	30.4	51.2	2.0	51.2	0.7	0.0	1.2	54.9	47.6
Iran, Islamic Rep.	3735	3.8	5.0	2.6	36.1	51.2	1.4	51.2	0.9	0.0	0.5	57.3	46.6
Ireland	3117	2.8	5.4	10.9	19.7	59.8	1.4	59.8	0.8	0.0	0.6	62.5	56.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	5126	1.2	4.6	1.2	39.2	53.1	0.8	53.1	0.7	0.0	0.1	53.6	52.6
Korea	2907	1.8	11.6	2.0	40.2	44.2	0.1	44.2	0.0	0.0	0.1	37.9	48.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2566	0.9	4.6	1.7	16.4	73.5	2.9	73.5	0.0	0.3	2.7	79.3	67.4
Lithuania	2518	1.6	11.4	3.7	15.6	61.9	5.8	61.9	0.5	0.6	4.6	65.9	58.0
Netherlands	2097	2.1	4.0	1.8	18.5	73.2	0.5	73.2	0.1	0.1	0.4	74.0	72.4
New Zealand	3173	3.3	5.5	8.2	17.6	64.2	1.2	64.2	0.7	0.0	0.5	66.1	62.6
Norway	2459	3.4	6.6	6.9	22.2	55.0	5.9	55.0	0.0	0.4	5.6	58.2	51.9
Philippines	5847	9.4	15.6	11.5	19.4	43.3	0.8	43.3	0.0	0.1	0.7	47.8	38.3
Portugal	3344	2.6	7.8	4.4	24.7	56.5	4.1	56.5	0.0	0.1	4.0	58.9	54.0
Romania	3733	1.4	3.6	2.1	10.5	72.9	9.5	72.9	7.7	0.2	1.6	73.8	72.1
Russian Federation	4137	1.6	3.7	5.7	9.4	76.9	2.7	76.9	0.8	0.2	1.7	78.4	75.5
Scotland	2893	3.7	4.8	13.3	20.7	54.5	3.0	54.5	1.4	0.3	1.3	55.3	53.9
Singapore	3641	2.0	3.7	4.4	24.0	65.3	0.6	65.3	0.0	0.0	0.6	72.4	58.3
Slovak Republic	3597	2.2	6.8	15.5	8.9	64.3	2.3	64.3	1.9	0.1	0.3	69.3	59.1
Slovenia	2895	1.1	8.1	1.4	7.5	78.7	3.2	78.7	2.1	0.0	1.1	81.3	75.9
South Africa	5301	17.5	12.0	16.8	15.3	33.9	4.5	33.9	1.5	1.1	1.8	34.1	33.9
Spain	3737	1.6	4.7	2.1	21.2	66.6	3.8	66.6	0.0	0.1	3.8	67.9	65.4
Sweden	2819	3.1	4.7	2.7	17.2	71.4	1.0	71.4	0.3	0.2	0.4	74.8	68.3
Switzerland	4085	1.5	7.0	1.9	19.2	68.5	2.0	68.5	0.9	0.2	0.9	73.9	63.1
Thailand	5845	0.6	1.5	2.2	6.5	88.9	0.2	88.9	0.0	0.0	0.2	90.4	86.8
United States	3862	3.3	5.7	6.1	13.0	70.3	1.5	70.3	0.2	0.0	1.3	72.8	67.9
INTERNATIONAL AVG	.	2.5	6.6	4.8	19.6	63.6	2.9	63.6	0.9	0.2	1.8	66.1	61.1

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: A08 KEY: B  
 Compare stored energy of two compressed springs. (Physics)  
 Difficulty: 490

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	5580	9.0	72.6	5.2	12.4	0.7	72.6	0.0	0.3	0.4	72.7	72.6
Austria	3008	4.8	66.5	4.2	23.3	1.2	66.5	0.1	0.1	0.9	69.0	64.4
Belgium (Fl)	2767	6.9	69.2	6.6	16.0	1.2	69.2	0.0	0.0	1.1	70.8	67.7
Belgium (Fr)	2277	11.5	59.1	6.6	19.1	3.7	59.1	0.2	0.2	3.3	57.3	61.3
Bulgaria	1798	9.7	64.9	7.9	14.5	2.9	64.9	0.2	0.0	2.7	64.1	65.8
Canada	8188	8.7	71.5	6.0	13.2	0.5	71.5	0.1	0.0	0.4	71.5	71.9
Colombia	2655	10.1	49.1	6.6	30.8	3.4	49.1	0.5	1.2	1.7	46.9	51.6
Cyprus	2927	11.5	59.4	7.9	19.7	1.6	59.4	0.3	0.2	1.1	56.9	61.7
Czech Republic	3339	9.2	56.4	7.7	25.8	0.9	56.4	0.2	0.0	0.7	59.0	53.7
Denmark	2066	7.7	65.5	4.0	19.2	3.6	65.5	0.8	0.6	2.2	65.1	65.8
England	1780	10.2	71.8	5.1	12.7	0.2	71.8	0.0	0.0	0.2	71.6	71.9
France	3006	7.8	63.9	8.3	18.2	1.8	63.9	0.3	0.1	1.4	62.1	66.2
Germany	2887	4.8	68.0	4.2	20.5	2.6	68.0	0.8	0.3	1.6	70.6	65.7
Greece	3922	8.4	64.5	7.4	18.5	1.3	64.5	0.2	0.1	0.9	63.4	65.4
Hong Kong	3411	11.0	67.9	6.2	14.5	0.4	67.9	0.1	0.0	0.3	67.2	68.5
Hungary	3066	3.5	74.0	3.3	17.2	1.9	74.0	0.0	0.3	1.6	77.3	70.8
Iceland	1952	10.1	59.5	8.7	20.8	0.9	59.5	0.4	0.0	0.4	58.8	60.1
Iran, Islamic Rep.	3735	13.9	49.3	8.6	27.3	0.9	49.3	0.3	0.0	0.7	47.6	50.6
Ireland	3117	11.5	64.6	6.6	16.9	0.4	64.6	0.1	0.0	0.3	63.8	65.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	5126	9.2	76.2	4.9	9.5	0.1	76.2	0.0	0.0	0.1	77.1	75.4
Korea	2907	19.4	67.1	9.2	4.3	0.0	67.1	0.0	0.0	0.0	64.5	69.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2565	6.8	44.0	7.7	38.0	3.5	44.0	0.0	0.3	3.2	42.9	45.1
Lithuania	2518	7.2	43.1	4.7	37.5	7.5	43.1	0.2	0.6	6.6	40.5	45.7
Netherlands	2097	9.7	72.9	6.0	11.0	0.5	72.9	0.0	0.1	0.4	72.4	73.7
New Zealand	3174	10.5	68.4	6.7	14.1	0.3	68.4	0.1	0.0	0.2	68.1	68.7
Norway	2459	7.2	70.0	6.4	15.3	1.1	70.0	0.0	0.4	0.7	67.8	72.0
Philippines	5847	28.9	47.2	10.2	13.6	0.2	47.2	0.0	0.1	0.1	43.9	50.8
Portugal	3344	12.0	54.1	7.3	25.2	1.4	54.1	0.0	0.1	1.3	52.1	56.3
Romania	3738	8.8	39.8	5.5	43.6	2.3	39.8	1.0	0.2	1.1	39.2	40.4
Russian Federation	4138	3.9	62.7	3.1	28.0	2.2	62.7	0.3	0.2	1.7	64.1	61.4
Scotland	2893	9.6	74.1	3.3	12.4	0.5	74.1	0.0	0.3	0.3	73.6	74.6
Singapore	3641	7.3	72.0	2.7	17.6	0.4	72.0	0.0	0.0	0.4	72.3	71.8
Slovak Republic	3598	9.7	51.9	6.5	30.8	1.0	51.9	0.2	0.1	0.7	52.7	51.1
Slovenia	2894	11.7	70.1	4.4	12.8	1.0	70.1	0.5	0.0	0.5	69.0	71.2
South Africa	5301	27.8	44.1	14.8	10.6	2.6	44.1	0.5	1.2	0.9	40.3	48.9
Spain	3737	7.9	64.2	7.2	19.7	1.0	64.2	0.0	0.1	0.9	62.6	65.8
Sweden	2819	6.1	66.3	7.1	19.8	0.7	66.3	0.1	0.2	0.3	65.5	67.0
Switzerland	4085	6.8	67.4	6.2	18.3	1.4	67.4	0.3	0.2	0.9	65.9	68.8
Thailand	5845	8.4	68.9	4.2	18.3	0.2	68.9	0.0	0.0	0.2	69.9	67.9
United States	3862	9.7	76.1	4.8	8.2	1.2	76.1	0.0	0.0	1.2	72.0	80.3
INTERNATIONAL AVG	.	10.0	63.0	6.3	19.2	1.5	63.0	0.2	0.2	1.1	62.3	63.7

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: A09 KEY: B  
 Relate fire temperature to oxygen supply. (Chemistry)  
 Difficulty: 411

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	5580	3.8	80.5	2.1	12.3	1.3	80.5	0.0	0.3	1.0	78.7	82.5
Austria	3008	5.6	76.5	4.4	11.6	1.8	76.5	0.1	0.2	1.5	75.2	78.0
Belgium (Fl)	2767	4.0	78.5	2.5	14.2	0.8	78.5	0.0	0.0	0.7	73.8	83.0
Belgium (Fr)	2277	4.4	70.3	2.9	19.8	2.6	70.3	0.1	0.3	2.3	65.5	75.6
Bulgaria	1798	2.8	90.2	1.6	4.1	1.3	90.2	0.4	0.0	0.8	90.3	90.0
Canada	8188	3.0	79.4	2.7	14.0	0.9	79.4	0.0	0.0	0.9	76.2	82.6
Colombia	2655	19.8	37.2	5.2	31.5	6.1	37.2	0.1	1.5	4.5	35.3	39.2
Cyprus	2927	8.4	70.7	5.5	14.0	1.6	70.7	0.2	0.2	1.1	70.2	71.2
Czech Republic	3339	5.0	77.3	2.6	14.3	0.8	77.3	0.1	0.1	0.5	72.6	82.1
Denmark	2066	5.8	59.5	2.5	29.1	3.0	59.5	0.3	0.7	2.1	53.0	66.8
England	1780	3.0	80.8	2.1	13.5	0.7	80.8	0.0	0.0	0.6	76.4	84.4
France	3006	4.2	64.1	3.4	26.5	1.8	64.1	0.7	0.1	1.0	57.1	71.2
Germany	2887	5.8	72.5	4.1	12.6	4.9	72.5	0.8	0.3	3.8	68.0	77.3
Greece	3922	6.6	73.4	2.5	16.2	1.3	73.4	0.1	0.2	1.0	70.1	76.3
Hong Kong	3411	5.0	81.0	3.4	10.3	0.3	81.0	0.0	0.0	0.3	77.6	83.7
Hungary	3066	2.4	80.1	2.0	12.9	2.6	80.1	0.0	0.3	2.2	76.6	83.6
Iceland	1952	6.0	71.0	6.0	15.8	1.2	71.0	0.0	0.0	1.1	65.2	76.6
Iran, Islamic Rep.	3726	2.5	87.9	1.3	7.7	0.5	87.9	0.1	0.0	0.4	86.5	89.0
Ireland	3117	3.1	78.9	1.9	15.1	0.9	78.9	0.1	0.0	0.7	76.3	82.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	5126	1.5	87.9	1.8	8.5	0.3	87.9	0.2	0.0	0.1	87.7	88.1
Korea	2907	2.0	72.6	2.2	23.1	0.1	72.6	0.0	0.0	0.1	70.9	73.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2565	10.1	53.4	9.8	22.8	4.0	53.4	0.0	0.4	3.6	45.9	61.0
Lithuania	2518	10.3	46.9	4.5	33.0	5.3	46.9	0.3	0.7	4.3	46.4	47.5
Netherlands	2097	4.0	79.5	3.4	12.5	0.7	79.5	0.0	0.1	0.6	75.8	83.3
New Zealand	3174	4.5	78.9	2.5	13.6	0.6	78.9	0.1	0.0	0.5	74.6	82.6
Norway	2459	3.6	79.6	1.3	14.2	1.4	79.6	0.0	0.4	1.0	74.9	84.0
Philippines	5847	21.2	37.5	11.7	29.3	0.4	37.5	0.0	0.1	0.3	37.0	38.0
Portugal	3344	11.5	53.0	3.4	30.5	1.7	53.0	0.0	0.2	1.5	45.7	60.7
Romania	3733	9.2	58.0	9.0	19.3	4.5	58.0	1.6	0.2	2.6	54.0	62.2
Russian Federation	4138	7.2	72.6	2.5	14.7	3.1	72.6	0.3	0.2	2.6	66.8	78.6
Scotland	2893	4.7	70.1	2.4	21.7	1.2	70.1	0.2	0.3	0.7	65.9	74.3
Singapore	3641	2.8	86.1	2.6	8.2	0.3	86.1	0.0	0.0	0.3	85.1	87.1
Slovak Republic	3598	3.3	77.5	3.9	14.3	1.0	77.5	0.2	0.1	0.7	72.9	82.3
Slovenia	2893	3.6	76.1	2.3	16.7	1.3	76.1	0.6	0.0	0.7	71.4	81.0
South Africa	5301	23.6	40.6	12.1	19.9	3.9	40.6	0.4	1.2	2.3	40.6	41.2
Spain	3737	8.7	66.7	2.4	21.0	1.2	66.7	0.0	0.1	1.0	59.1	74.3
Sweden	2819	3.4	82.5	2.0	11.4	0.8	82.5	0.1	0.3	0.4	80.7	84.3
Switzerland	4085	4.6	71.0	4.5	18.2	1.7	71.0	0.4	0.2	1.0	65.8	76.1
Thailand	5845	5.9	52.0	3.0	38.8	0.3	52.0	0.0	0.0	0.2	49.7	55.0
United States	3862	3.1	80.3	2.4	12.6	1.5	80.3	0.0	0.0	1.5	78.1	82.5
INTERNATIONAL AVG	.	6.2	70.8	3.7	17.5	1.7	70.8	0.2	0.2	1.3	67.3	74.3

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: A10 KEY: A  
 Relate light level and reflectance to vision of object. (Physics)  
 Difficulty: 472

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	5580	72.5	9.6	7.3	9.6	1.1	72.5	0.0	0.4	0.7	73.7	71.1
Austria	3008	66.9	9.2	11.5	11.2	1.1	66.9	0.0	0.2	0.9	70.4	62.9
Belgium (Fl)	2767	66.2	7.4	7.8	17.4	1.3	66.2	0.0	0.0	1.3	64.8	67.5
Belgium (Fr)	2270	56.8	8.1	14.9	15.1	5.0	56.8	0.1	0.3	4.6	56.1	57.5
Bulgaria	1798	59.9	17.8	9.8	9.2	3.3	59.9	0.0	0.0	3.2	61.0	58.4
Canada	8188	67.4	12.1	9.3	10.8	0.5	67.4	0.1	0.0	0.4	66.4	68.3
Colombia	2655	58.0	8.7	17.5	9.0	6.8	58.0	0.3	2.3	4.2	55.4	60.6
Cyprus	2927	45.3	22.2	16.6	13.2	2.6	45.3	0.3	0.3	1.9	44.8	45.9
Czech Republic	3336	69.0	7.6	9.9	12.4	1.0	69.0	0.1	0.1	0.8	68.2	69.9
Denmark	2066	60.3	13.1	13.2	8.5	4.9	60.3	0.4	1.0	3.6	58.1	62.9
England	1780	71.9	11.3	6.0	10.5	0.4	71.9	0.0	0.0	0.3	73.2	70.8
France	3006	57.5	9.3	15.9	13.9	3.4	57.5	0.6	0.1	2.7	55.0	59.6
Germany	2887	66.9	6.9	13.0	9.0	4.2	66.9	0.7	0.3	3.2	66.4	67.9
Greece	3922	63.1	15.3	12.1	6.9	2.7	63.1	0.2	0.2	2.3	63.5	62.8
Hong Kong	3412	64.6	6.2	21.4	7.2	0.6	64.6	0.1	0.0	0.5	60.7	67.7
Hungary	3066	56.2	8.3	18.7	13.6	3.1	56.2	0.0	0.4	2.7	55.2	57.3
Iceland	1952	78.1	6.1	8.0	6.8	1.0	78.1	0.0	0.1	0.9	78.2	78.1
Iran, Islamic Rep.	3726	62.3	11.8	12.8	11.7	1.5	62.3	0.1	0.0	1.3	56.7	66.5
Ireland	3117	70.3	11.5	6.5	11.3	0.5	70.3	0.2	0.0	0.3	69.3	71.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	5126	56.7	9.5	25.6	7.9	0.3	56.7	0.1	0.0	0.2	56.4	57.0
Korea	2907	70.6	6.9	18.2	4.2	0.1	70.6	0.0	0.0	0.1	64.6	75.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2565	60.8	8.1	11.8	15.7	3.6	60.8	0.0	0.4	3.2	58.6	63.3
Lithuania	2518	53.2	14.0	13.7	10.5	8.5	53.2	0.1	0.7	7.6	52.5	53.9
Netherlands	2097	63.4	11.3	15.9	8.3	1.1	63.4	0.0	0.1	1.0	63.1	63.9
New Zealand	3174	70.8	11.0	7.3	10.6	0.3	70.8	0.0	0.0	0.2	70.5	71.1
Norway	2459	77.0	8.5	3.7	9.3	1.5	77.0	0.0	0.6	1.0	75.9	77.9
Philippines	5847	60.9	12.0	10.7	16.0	0.4	60.9	0.0	0.1	0.3	63.4	58.1
Portugal	3344	66.2	10.0	16.2	6.0	1.6	66.2	0.0	0.2	1.4	65.7	66.7
Romania	3740	63.8	9.4	8.7	14.5	3.7	63.8	0.9	0.3	2.5	63.9	63.7
Russian Federation	4137	49.4	10.0	15.8	19.0	5.8	49.4	0.1	0.3	5.3	48.0	50.9
Scotland	2893	68.1	10.6	8.4	12.0	0.9	68.1	0.1	0.3	0.5	68.7	67.5
Singapore	3641	77.2	5.4	10.3	6.8	0.4	77.2	0.0	0.0	0.4	76.1	78.3
Slovak Republic	3596	79.9	4.2	5.7	8.4	1.7	79.9	0.1	0.2	1.4	80.2	79.7
Slovenia	2895	74.5	5.4	8.1	10.7	1.2	74.5	0.2	0.0	1.0	73.4	75.8
South Africa	5301	34.7	19.8	26.2	15.4	3.9	34.7	0.5	1.3	2.2	33.6	36.2
Spain	3737	66.9	10.3	12.6	8.7	1.5	66.9	0.0	0.1	1.3	67.3	66.6
Sweden	2819	69.5	10.3	12.1	7.4	0.8	69.5	0.1	0.3	0.4	68.8	69.9
Switzerland	4085	66.7	8.7	11.4	11.1	2.1	66.7	0.3	0.2	1.5	65.0	68.4
Thailand	5845	65.8	6.8	15.3	11.7	0.5	65.8	0.0	0.0	0.4	66.9	64.3
United States	3862	74.3	8.9	8.5	7.4	0.9	74.3	0.0	0.1	0.8	75.0	73.6
INTERNATIONAL AVG	.	64.6	10.1	12.5	10.7	2.1	64.6	0.1	0.3	1.7	63.9	65.2

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: All KEY: C  
 Identify major problem of overgrazing livestock. (Environment and other content)  
 Difficulty: 537

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	5580	13.5	8.8	72.5	3.8	1.3	72.5	0.0	0.4	0.9	70.4	74.8
Austria	3008	11.0	17.4	59.1	10.5	2.0	59.1	0.1	0.2	1.7	57.3	61.1
Belgium (Fl)	2767	16.6	6.1	69.0	6.5	1.7	69.0	0.0	0.0	1.7	67.2	70.9
Belgium (Fr)	2270	23.7	21.4	29.8	12.0	13.1	29.8	0.0	0.4	12.7	25.4	34.9
Bulgaria	1798	9.3	13.3	73.8	1.7	2.0	73.8	0.3	0.1	1.6	74.6	72.8
Canada	8188	21.1	14.9	52.2	10.8	1.1	52.2	0.0	0.0	1.0	50.5	54.1
Colombia	2655	29.1	13.6	41.9	7.5	7.9	41.9	0.3	3.1	4.5	40.2	43.4
Cyprus	2927	9.8	25.8	54.9	7.1	2.3	54.9	0.1	0.4	1.7	53.5	56.4
Czech Republic	3336	11.5	8.3	72.7	6.2	1.3	72.7	0.2	0.1	0.9	70.8	74.7
Denmark	2066	20.6	20.0	35.0	14.4	10.0	35.0	0.4	1.1	8.5	30.7	39.4
England	1780	14.4	10.5	64.9	9.1	1.1	64.9	0.0	0.0	1.1	62.7	66.8
France	3006	34.8	16.0	32.9	10.6	5.7	32.9	0.6	0.2	4.9	31.1	34.8
Germany	2887	14.7	17.4	49.7	11.0	7.3	49.7	1.0	0.3	6.0	46.0	53.7
Greece	3922	19.6	17.4	52.9	7.4	2.7	52.9	0.2	0.2	2.2	51.2	54.4
Hong Kong	3412	16.7	32.5	35.8	13.6	1.3	35.8	0.1	0.0	1.3	31.4	39.3
Hungary	3066	31.9	13.5	45.9	4.6	4.1	45.9	0.0	0.6	3.6	43.0	48.9
Iceland	1952	8.5	22.6	61.6	5.0	2.3	61.6	0.3	0.1	1.9	58.3	64.9
Iran, Islamic Rep.	3726	6.2	19.6	69.9	3.7	0.6	69.9	0.1	0.0	0.5	70.0	69.8
Ireland	3117	16.2	8.6	67.1	7.1	1.1	67.1	0.1	0.0	1.0	65.9	68.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	5126	11.7	13.3	60.6	14.1	0.3	60.6	0.0	0.0	0.3	60.7	60.5
Korea	2907	9.9	29.7	53.1	7.0	0.2	53.1	0.0	0.0	0.2	55.2	51.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2565	16.8	24.9	44.6	8.4	5.3	44.6	0.0	0.5	4.7	43.9	45.3
Lithuania	2518	19.4	22.2	32.9	12.4	13.2	32.9	0.3	1.1	11.9	31.5	34.2
Netherlands	2097	9.4	8.7	65.4	15.6	0.8	65.4	0.0	0.1	0.7	63.2	67.9
New Zealand	3174	18.5	13.5	61.2	6.2	0.6	61.2	0.2	0.0	0.3	57.3	64.6
Norway	2459	12.1	14.6	55.2	15.3	2.8	55.2	0.0	0.6	2.2	53.5	56.8
Philippines	5847	15.8	33.4	46.7	3.5	0.6	46.7	0.0	0.1	0.6	47.3	46.0
Portugal	3342	31.6	19.4	37.6	8.4	3.0	37.6	0.0	0.3	2.7	34.3	41.0
Romania	3739	19.8	14.5	55.8	5.1	4.8	55.8	2.4	0.4	2.0	54.0	57.8
Russian Federation	4136	11.1	31.5	51.1	2.0	4.4	51.1	0.3	0.4	3.6	47.1	55.3
Scotland	2893	14.6	16.4	54.9	11.9	2.2	54.9	0.2	0.3	1.7	51.7	58.2
Singapore	3641	16.5	23.7	51.5	7.4	0.9	51.5	0.0	0.0	0.9	49.3	53.7
Slovak Republic	3596	10.9	13.5	66.0	8.1	1.5	66.0	0.3	0.2	1.0	65.2	66.8
Slovenia	2893	17.2	12.8	61.0	7.1	2.0	61.0	0.5	0.0	1.5	58.5	63.6
South Africa	5301	17.8	17.6	46.5	14.1	4.0	46.5	0.3	1.5	2.3	44.8	49.0
Spain	3737	31.7	10.0	52.0	4.6	1.7	52.0	0.0	0.2	1.5	47.3	56.6
Sweden	2818	25.2	17.1	45.1	10.3	2.4	45.1	0.1	0.4	2.0	43.4	46.7
Switzerland	4085	18.0	18.3	53.8	6.9	3.0	53.8	0.3	0.3	2.4	52.1	55.4
Thailand	5845	12.9	17.3	65.0	4.2	0.6	65.0	0.0	0.0	0.6	65.0	64.8
United States	3862	18.0	15.0	59.6	6.2	1.1	59.6	0.1	0.1	1.0	57.2	62.0
INTERNATIONAL AVG	.	17.2	17.4	54.0	8.3	3.1	54.0	0.2	0.3	2.5	52.1	56.0

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: A12 KEY: C  
 Predict how river shape/speed changes due to terrain. (Earth Science)  
 Difficulty: 534

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	5580	8.3	21.0	52.5	16.7	1.5	52.5	0.0	0.4	1.1	51.8	53.3
Austria	3007	6.4	17.0	61.5	13.0	2.1	61.5	0.1	0.2	1.8	59.4	63.0
Belgium (Fl)	2767	3.0	11.3	76.1	8.5	1.0	76.1	0.0	0.0	1.0	74.5	77.7
Belgium (Fr)	2270	9.8	23.1	46.1	13.2	7.6	46.1	0.1	0.4	7.2	43.1	49.3
Bulgaria	1798	5.0	13.5	67.7	10.8	3.0	67.7	0.8	0.1	2.0	67.6	67.8
Canada	8188	8.1	21.7	51.9	17.2	1.1	51.9	0.0	0.0	1.0	50.8	53.2
Colombia	2655	11.4	33.0	27.8	18.0	9.8	27.8	0.2	3.9	5.8	25.8	29.7
Cyprus	2926	9.8	32.3	37.1	16.9	4.0	37.1	0.2	0.4	3.3	36.3	38.0
Czech Republic	3336	5.0	14.5	71.2	7.8	1.4	71.2	0.1	0.2	1.2	68.7	73.7
Denmark	2066	5.1	17.6	54.2	14.2	9.0	54.2	0.3	1.3	7.3	52.4	56.4
England	1780	6.4	22.1	51.7	18.8	1.0	51.7	0.0	0.0	0.9	50.6	52.6
France	3006	8.2	19.9	48.1	20.3	3.5	48.1	0.9	0.2	2.4	45.0	51.0
Germany	2887	7.2	19.4	55.4	11.8	6.2	55.4	0.7	0.4	5.1	55.9	55.3
Greece	3920	9.4	25.5	44.7	15.5	5.0	44.7	0.1	0.3	4.6	43.8	45.4
Hong Kong	3406	13.6	27.6	36.6	21.2	0.9	36.6	0.0	0.0	0.9	36.0	37.1
Hungary	3066	2.9	17.3	67.5	8.9	3.4	67.5	0.0	0.6	2.7	66.0	69.0
Iceland	1951	6.8	19.2	55.3	16.1	2.6	55.3	0.2	0.1	2.2	52.5	58.0
Iran, Islamic Rep.	3725	13.8	23.5	36.9	24.3	1.6	36.9	0.1	0.0	1.5	29.3	42.7
Ireland	3117	4.6	21.4	58.8	14.3	1.0	58.8	0.3	0.0	0.7	55.8	62.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	5126	3.4	11.1	80.0	5.2	0.3	80.0	0.0	0.0	0.3	79.7	80.2
Korea	2907	4.7	25.6	57.5	11.8	0.3	57.5	0.0	0.0	0.3	54.2	59.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	2564	8.3	19.3	52.4	15.9	4.1	52.4	0.0	0.6	3.4	52.3	52.4
Lithuania	2518	7.2	24.2	42.2	17.6	8.7	42.2	0.2	1.2	7.3	39.6	44.9
Netherlands	2097	4.8	18.9	66.4	9.0	0.9	66.4	0.0	0.1	0.9	63.5	69.4
New Zealand	3174	10.4	20.2	49.4	19.1	0.9	49.4	0.2	0.0	0.7	45.7	52.7
Norway	2459	5.4	13.1	65.3	14.1	2.2	65.3	0.0	0.7	1.6	62.3	68.1
Philippines	5847	14.2	40.2	30.1	14.5	0.9	30.1	0.0	0.1	0.8	30.3	30.0
Portugal	3343	10.0	23.4	43.8	20.3	2.5	43.8	0.0	0.4	2.2	41.5	46.3
Romania	3734	7.8	12.3	63.0	11.6	5.2	63.0	2.3	0.4	2.4	61.3	64.8
Russian Federation	4132	1.9	7.0	76.0	12.3	2.8	76.0	0.2	0.5	2.2	72.9	79.3
Scotland	2893	7.1	24.2	45.3	21.6	1.7	45.3	0.2	0.3	1.2	40.9	49.7
Singapore	3641	7.3	28.5	52.9	10.2	1.1	52.9	0.0	0.0	1.1	52.3	53.6
Slovak Republic	3596	5.8	11.6	70.8	9.9	1.9	70.8	0.2	0.2	1.5	67.9	73.9
Slovenia	2893	4.0	13.6	65.7	14.3	2.4	65.7	0.7	0.0	1.6	62.4	69.1
South Africa	5301	10.4	35.4	27.3	22.3	4.6	27.3	0.2	1.5	2.9	27.1	27.6
Spain	3737	7.3	17.0	59.2	14.9	1.6	59.2	0.0	0.2	1.4	55.5	62.9
Sweden	2819	4.7	12.7	60.1	21.0	1.5	60.1	0.1	0.4	1.0	61.0	59.2
Switzerland	4085	5.2	18.5	62.5	11.4	2.4	62.5	0.4	0.3	1.7	59.7	65.3
Thailand	5845	2.3	21.1	64.2	11.8	0.6	64.2	0.0	0.0	0.6	65.5	62.3
United States	3862	8.1	22.6	49.3	18.7	1.3	49.3	0.1	0.1	1.1	47.8	50.8
INTERNATIONAL AVG	.	7.1	20.5	54.6	14.9	2.8	54.6	0.2	0.4	2.2	52.7	56.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: B01 KEY: C  
 Identify hottest layer of the Earth. (Earth Science)  
 Difficulty: 313

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2783	11.1	2.8	84.0	1.7	0.4	84.0	0.0	0.2	0.2	79.7	88.6
Austria	1487	4.9	1.6	91.8	0.8	0.8	91.8	0.0	0.1	0.7	90.2	93.1
Belgium (Fl)	1372	5.5	1.1	92.8	0.2	0.5	92.8	0.0	0.1	0.4	91.6	94.1
Belgium (Fr)	1133	14.8	3.2	78.5	1.1	2.4	78.5	0.0	0.0	2.3	71.1	86.3
Bulgaria	968	2.4	1.5	94.0	1.3	0.8	94.0	0.2	0.0	0.6	94.1	93.9
Canada	4110	4.8	3.6	90.2	1.2	0.3	90.2	0.0	0.0	0.2	87.0	93.3
Colombia	1321	21.7	4.2	64.1	5.9	4.0	64.1	0.5	0.7	2.8	61.0	66.8
Cyprus	1418	11.3	7.4	76.6	2.6	2.2	76.6	0.2	0.0	1.9	73.6	79.5
Czech Republic	1664	4.6	1.8	91.1	1.5	1.0	91.1	0.5	0.0	0.4	88.3	94.1
Denmark	967	3.7	2.5	91.6	1.4	0.8	91.6	0.0	0.1	0.7	88.5	94.5
England	887	6.0	2.8	89.8	1.2	0.3	89.8	0.0	0.0	0.3	87.7	91.5
France	1513	10.7	2.7	83.5	1.9	1.2	83.5	0.0	0.0	1.2	79.5	87.4
Germany	1448	4.8	1.7	90.4	1.1	2.0	90.4	0.5	0.0	1.5	88.5	92.7
Greece	1952	2.7	2.4	92.3	1.6	0.9	92.3	0.3	0.0	0.6	91.5	93.2
Hong Kong	1704	6.6	3.8	87.3	1.3	0.9	87.3	0.0	0.1	0.8	82.6	91.1
Hungary	1539	3.6	2.4	91.8	1.0	1.2	91.8	0.0	0.2	1.0	90.8	92.8
Iceland	967	3.1	2.6	92.6	1.1	0.7	92.6	0.2	0.0	0.5	90.2	95.0
Iran, Islamic Rep.	1868	13.4	7.5	68.9	6.8	3.4	68.9	2.0	0.0	1.5	66.7	70.5
Ireland	1585	4.6	1.9	91.3	1.3	0.9	91.3	0.8	0.0	0.1	90.8	91.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2558	8.6	3.3	86.6	1.4	0.1	86.6	0.0	0.0	0.1	83.6	89.5
Korea	1440	15.1	4.8	78.5	1.5	0.1	78.5	0.0	0.0	0.1	70.2	84.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1273	6.6	7.5	82.4	1.7	1.8	82.4	0.0	0.1	1.7	81.3	83.5
Lithuania	1256	7.3	5.3	82.3	1.5	3.7	82.3	0.1	0.4	3.1	80.8	83.7
Netherlands	1046	7.2	2.5	89.3	0.7	0.2	89.3	0.0	0.0	0.2	85.6	93.0
New Zealand	1588	6.4	1.8	89.1	2.6	0.1	89.1	0.1	0.0	0.0	84.9	92.8
Norway	1236	4.8	2.3	91.6	0.5	0.8	91.6	0.0	0.2	0.5	90.2	92.8
Philippines	2922	16.7	7.0	66.9	9.0	0.4	66.9	0.0	0.0	0.4	66.6	67.3
Portugal	1676	6.1	3.9	88.0	1.3	0.7	88.0	0.0	0.1	0.7	85.8	90.4
Romania	1883	17.0	8.0	67.2	5.6	2.3	67.2	0.9	0.0	1.4	65.2	69.2
Russian Federation	2047	2.6	4.7	91.1	1.0	0.6	91.1	0.2	0.1	0.4	89.1	93.1
Scotland	1460	11.2	2.7	84.6	1.0	0.5	84.6	0.0	0.1	0.3	82.4	86.7
Singapore	1815	11.8	6.1	78.5	3.1	0.5	78.5	0.0	0.0	0.5	73.4	83.5
Slovak Republic	1775	7.6	2.6	86.9	2.2	0.8	86.9	0.2	0.1	0.4	82.9	90.7
Slovenia	1451	4.5	0.3	93.9	1.0	0.3	93.9	0.1	0.0	0.2	91.7	96.2
South Africa	2598	13.6	10.5	63.2	9.2	3.4	63.2	0.4	0.3	2.7	63.1	63.8
Spain	1873	6.7	2.1	89.3	1.4	0.5	89.3	0.0	0.0	0.5	85.3	93.3
Sweden	1385	2.4	2.4	93.5	1.3	0.4	93.5	0.0	0.0	0.4	91.2	95.6
Switzerland	2055	5.8	2.2	90.6	0.6	0.8	90.6	0.1	0.0	0.8	88.1	93.2
Thailand	2907	27.5	3.9	65.7	2.2	0.6	65.7	0.0	0.0	0.6	63.9	68.5
United States	1936	5.1	2.2	91.0	1.2	0.5	91.0	0.0	0.0	0.4	89.0	92.9
INTERNATIONAL AVG	.	8.4	3.6	84.8	2.1	1.1	84.8	0.2	0.1	0.8	82.2	87.4

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: B02 KEY: B  
 Know type of energy released from combustion engine. (Physics)  
 Difficulty: 565

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2783	29.0	51.3	9.6	9.0	1.1	51.3	0.0	0.3	0.8	52.1	50.4
Austria	1487	35.9	53.9	3.4	4.2	2.6	53.9	0.0	0.1	2.5	50.4	56.7
Belgium (Fl)	1372	33.5	40.5	15.0	9.2	1.7	40.5	0.0	0.1	1.6	41.3	39.8
Belgium (Fr)	1133	25.7	52.5	12.4	1.7	7.8	52.5	0.1	0.1	7.6	50.5	54.8
Bulgaria	968	14.5	63.7	6.3	10.6	4.9	63.7	1.0	0.0	3.9	62.1	65.7
Canada	4110	27.5	54.6	13.0	4.4	0.5	54.6	0.0	0.0	0.5	53.3	56.2
Colombia	1321	29.9	43.9	9.8	11.9	4.5	43.9	0.4	0.8	3.3	44.5	43.8
Cyprus	1418	21.2	57.7	4.8	12.3	3.9	57.7	0.2	0.0	3.7	61.9	53.6
Czech Republic	1664	20.4	56.9	3.3	16.7	2.7	56.9	0.2	0.0	2.5	51.2	62.8
Denmark	967	35.2	39.7	14.3	6.7	4.0	39.7	0.2	0.1	3.7	39.7	40.8
England	887	22.6	59.1	9.7	8.1	0.5	59.1	0.0	0.0	0.5	61.7	57.0
France	1513	24.6	56.8	12.6	3.0	3.1	56.8	0.3	0.0	2.7	53.2	60.8
Germany	1448	32.8	52.5	3.9	4.1	6.8	52.5	1.2	0.0	5.5	51.0	54.5
Greece	1952	25.1	56.0	4.5	12.2	2.2	56.0	0.2	0.1	1.9	58.4	53.8
Hong Kong	1705	45.5	36.7	5.7	11.0	1.1	36.7	0.1	0.1	1.0	39.7	34.3
Hungary	1539	23.6	57.4	1.7	13.8	3.5	57.4	0.0	0.2	3.3	56.1	58.7
Iceland	970	38.9	36.5	10.8	13.4	0.4	36.5	0.1	0.0	0.3	31.4	41.7
Iran, Islamic Rep.	1868	20.5	50.2	16.5	11.1	1.7	50.2	0.0	0.0	1.6	50.3	50.4
Ireland	1585	18.7	52.2	14.4	13.4	1.3	52.2	0.5	0.0	0.8	52.7	51.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2558	31.3	55.3	8.9	4.4	0.1	55.3	0.0	0.0	0.1	55.2	55.4
Korea	1440	19.8	58.2	10.1	11.7	0.1	58.2	0.0	0.1	0.1	58.3	58.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1274	14.0	41.9	14.9	21.9	7.4	41.9	0.0	0.2	7.2	43.3	40.2
Lithuania	1256	20.7	30.3	14.3	17.3	17.4	30.3	0.2	0.5	16.8	33.7	26.8
Netherlands	1046	33.9	43.7	13.8	7.6	1.0	43.7	0.0	0.0	1.0	42.4	45.2
New Zealand	1588	24.8	48.0	18.9	8.0	0.2	48.0	0.0	0.0	0.2	49.0	47.0
Norway	1236	42.8	39.5	6.5	9.8	1.4	39.5	0.0	0.3	1.1	38.6	40.2
Philippines	2921	28.8	50.8	11.2	8.6	0.6	50.8	0.0	0.0	0.5	50.9	50.7
Portugal	1676	15.8	41.1	27.9	11.8	3.3	41.1	0.0	0.1	3.2	41.9	40.3
Romania	1884	20.7	58.8	5.4	9.9	5.2	58.8	1.6	0.1	3.5	60.7	56.8
Russian Federation	2047	16.1	49.0	10.1	14.9	9.9	49.0	0.3	0.2	9.4	50.5	47.5
Scotland	1460	28.9	46.3	10.6	12.9	1.3	46.3	0.3	0.1	0.9	46.3	46.5
Singapore	1815	28.9	57.4	5.1	8.2	0.4	57.4	0.0	0.0	0.4	60.1	54.6
Slovak Republic	1775	18.5	50.9	3.8	24.3	2.5	50.9	0.2	0.1	2.2	47.4	54.3
Slovenia	1451	21.6	46.9	8.9	19.7	2.9	46.9	0.5	0.0	2.3	47.2	46.7
South Africa	2598	23.7	37.4	14.3	20.2	4.4	37.4	0.5	0.9	3.0	37.9	37.2
Spain	1873	35.8	45.7	7.9	9.3	1.3	45.7	0.0	0.0	1.3	45.9	45.6
Sweden	1386	31.7	41.7	9.5	16.2	1.0	41.7	0.1	0.1	0.8	42.2	41.3
Switzerland	2055	41.0	38.4	12.0	5.7	3.0	38.4	0.5	0.2	2.3	36.3	40.4
Thailand	2907	22.6	57.4	7.1	12.0	0.8	57.4	0.0	0.1	0.8	57.9	56.7
United States	1936	28.2	57.5	11.5	2.2	0.7	57.5	0.0	0.0	0.6	59.6	55.4
INTERNATIONAL AVG	.	26.9	49.2	10.1	10.8	3.0	49.2	0.2	0.1	2.6	49.2	49.4

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent



Item: B03 KEY: C  
 Determine density from mass/volume table. (Physics)  
 Difficulty: 734

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2783	64.6	8.0	19.8	5.5	2.2	19.8	0.0	0.3	1.9	14.8	25.1
Austria	1487	57.0	8.5	24.5	6.3	3.6	24.5	0.0	0.1	3.5	21.0	27.1
Belgium (Fl)	1372	45.5	6.4	40.0	5.4	2.6	40.0	0.1	0.1	2.4	36.2	43.9
Belgium (Fr)	1133	79.6	3.1	11.0	2.2	4.1	11.0	0.0	0.1	4.0	8.3	13.6
Bulgaria	968	36.4	5.9	49.7	3.7	4.3	49.7	0.2	0.0	4.1	50.8	48.4
Canada	4110	70.6	9.5	15.0	4.5	0.5	15.0	0.1	0.0	0.4	11.5	18.3
Colombia	1321	76.4	4.4	11.5	3.5	4.1	11.5	0.3	1.0	2.9	11.5	11.6
Cyprus	1418	65.0	8.4	15.7	5.4	5.5	15.7	0.4	0.0	5.2	12.6	18.6
Czech Republic	1664	59.8	6.1	26.9	3.8	3.5	26.9	0.6	0.0	2.8	24.4	29.4
Denmark	967	60.5	10.4	13.2	3.0	12.9	13.2	0.7	0.2	12.0	11.3	14.9
England	887	73.4	7.6	14.9	3.8	0.3	14.9	0.0	0.0	0.3	12.3	16.9
France	1513	81.7	4.7	8.4	2.4	2.8	8.4	0.1	0.0	2.7	6.8	10.1
Germany	1448	49.0	7.1	21.5	7.3	15.1	21.5	0.6	0.0	14.5	18.9	24.3
Greece	1952	69.9	6.9	16.2	3.2	3.9	16.2	0.4	0.1	3.4	15.1	17.1
Hong Kong	1705	39.3	10.1	43.5	6.8	0.3	43.5	0.0	0.1	0.3	38.2	47.6
Hungary	1539	48.0	8.3	34.9	4.0	4.9	34.9	0.0	0.2	4.6	35.0	34.8
Iceland	970	40.2	10.8	39.5	6.8	2.7	39.5	0.0	0.0	2.7	34.2	45.0
Iran, Islamic Rep.	1868	58.6	10.7	16.9	9.3	4.5	16.9	0.4	0.0	4.0	17.1	16.9
Ireland	1585	62.4	8.1	20.9	7.0	1.7	20.9	0.1	0.0	1.6	19.3	22.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2558	39.7	12.0	38.4	9.4	0.5	38.4	0.0	0.0	0.5	34.7	41.8
Korea	1440	34.6	8.9	46.9	9.1	0.4	46.9	0.0	0.0	0.4	47.1	46.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1275	41.4	8.4	28.7	5.9	15.5	28.7	0.0	0.2	15.3	27.5	29.9
Lithuania	1254	54.9	4.7	14.6	3.4	22.4	14.6	0.3	0.5	21.7	14.7	14.5
Netherlands	1046	41.3	9.7	39.1	7.2	2.8	39.1	0.1	0.1	2.6	35.5	42.8
New Zealand	1588	74.6	6.6	13.0	5.1	0.7	13.0	0.1	0.0	0.6	11.8	14.1
Norway	1236	33.9	14.8	41.3	4.8	5.1	41.3	0.0	0.3	4.8	38.8	43.5
Philippines	2921	80.4	8.1	8.7	2.7	0.1	8.7	0.0	0.0	0.1	7.7	9.7
Portugal	1676	78.2	5.2	7.1	4.9	4.7	7.1	0.0	0.1	4.6	5.3	9.0
Romania	1884	59.6	4.5	25.2	4.2	6.6	25.2	1.3	0.1	5.2	25.9	24.3
Russian Federation	2046	52.1	7.5	29.6	5.5	5.3	29.6	0.0	0.2	5.1	28.1	31.3
Scotland	1460	75.3	7.1	11.9	4.3	1.3	11.9	0.1	0.1	1.1	10.6	13.2
Singapore	1815	37.9	10.4	44.9	6.3	0.5	44.9	0.0	0.0	0.5	45.7	44.1
Slovak Republic	1779	60.0	5.0	28.3	3.4	3.4	28.3	0.1	0.1	3.1	27.1	29.5
Slovenia	1452	54.9	9.1	29.0	3.4	3.7	29.0	0.2	0.0	3.5	25.9	32.1
South Africa	2598	54.3	13.2	18.5	9.9	4.2	18.5	0.6	1.0	2.7	18.0	19.2
Spain	1873	70.6	7.0	14.1	5.9	2.4	14.1	0.0	0.0	2.4	13.0	15.3
Sweden	1386	67.0	9.0	14.8	6.1	3.2	14.8	0.2	0.1	2.9	10.8	18.5
Switzerland	2054	66.7	6.9	16.4	3.9	6.1	16.4	0.3	0.2	5.5	14.7	18.2
Thailand	2907	65.4	7.3	21.6	5.2	0.5	21.6	0.0	0.1	0.4	21.7	21.4
United States	1936	70.7	8.4	15.9	4.4	0.6	15.9	0.0	0.0	0.6	14.1	17.6
INTERNATIONAL AVG	.	58.8	8.0	23.8	5.2	4.2	23.8	0.2	0.1	3.9	22.0	25.6

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: B04 KEY: C  
 Predict pulse/breathing rate change after exercise. (Life Science)  
 Difficulty: 293

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2783	1.3	2.7	90.5	3.8	1.1	0.6	90.5	0.0	0.3	0.3	92.2	88.8
Austria	1487	1.1	4.0	90.8	2.6	0.7	0.9	90.8	0.0	0.1	0.8	92.3	88.7
Belgium (Fl)	1372	1.3	2.6	90.9	4.2	0.6	0.5	90.9	0.0	0.1	0.4	90.4	91.5
Belgium (Fr)	1133	1.5	4.8	88.8	2.8	0.8	1.4	88.8	0.0	0.2	1.2	87.9	89.4
Bulgaria	968	2.3	3.0	89.7	2.8	1.1	1.1	89.7	0.0	0.0	1.1	89.6	89.7
Canada	4110	1.6	2.3	90.3	3.8	1.5	0.5	90.3	0.0	0.0	0.5	91.8	88.8
Colombia	1321	10.3	7.1	64.2	8.9	5.1	4.5	64.2	0.2	1.2	3.1	60.4	67.4
Cyprus	1418	3.6	3.5	84.3	4.7	1.5	2.6	84.3	0.4	0.0	2.2	84.2	84.4
Czech Republic	1664	0.8	3.5	91.8	1.5	1.6	0.8	91.8	0.0	0.0	0.7	91.1	92.6
Denmark	967	1.2	6.6	88.1	1.5	0.6	2.0	88.1	0.3	0.5	1.3	87.5	88.9
England	887	0.6	1.7	93.4	3.5	0.8	0.0	93.4	0.0	0.0	0.0	92.9	93.8
France	1513	1.2	3.7	88.2	4.1	1.2	1.7	88.2	0.5	0.0	1.2	87.9	88.5
Germany	1448	0.5	2.7	91.5	2.7	0.9	1.7	91.5	0.5	0.2	1.0	92.0	91.1
Greece	1952	4.3	6.3	81.7	4.5	1.7	1.4	81.7	0.2	0.1	1.2	83.2	80.5
Hong Kong	1705	1.3	4.6	88.4	2.5	2.9	0.2	88.4	0.0	0.1	0.2	88.1	88.8
Hungary	1539	1.6	1.6	90.2	4.2	1.6	0.8	90.2	0.0	0.2	0.5	89.8	90.6
Iceland	970	0.9	2.6	91.7	3.4	0.5	0.7	91.7	0.0	0.0	0.7	92.4	91.1
Iran, Islamic Rep.	1868	3.2	7.8	78.8	4.2	4.4	1.6	78.8	0.4	0.0	1.2	81.3	77.1
Ireland	1585	2.6	2.8	90.1	2.7	1.5	0.2	90.1	0.0	0.0	0.2	90.2	90.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2558	0.7	3.0	94.2	1.4	0.6	0.2	94.2	0.0	0.0	0.1	95.4	93.0
Korea	1440	2.7	5.5	86.7	4.2	0.8	0.1	86.7	0.0	0.1	0.0	84.4	88.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1276	2.6	5.5	83.2	3.2	3.1	2.5	83.2	0.0	0.2	2.3	82.4	84.1
Lithuania	1254	3.0	5.4	80.2	3.4	2.6	5.3	80.2	0.0	0.5	4.8	80.8	79.7
Netherlands	1046	0.6	3.8	90.4	4.0	0.9	0.4	90.4	0.0	0.1	0.3	92.0	88.9
New Zealand	1588	2.0	4.1	85.9	5.2	2.2	0.6	85.9	0.1	0.0	0.5	86.9	85.0
Norway	1236	1.0	3.5	91.8	2.7	0.3	0.9	91.8	0.0	0.3	0.5	92.8	90.8
Philippines	2921	12.1	17.9	55.6	9.7	4.5	0.4	55.6	0.1	0.0	0.3	56.8	54.3
Portugal	1676	1.5	5.3	88.7	2.3	1.4	0.7	88.7	0.0	0.1	0.6	87.1	90.4
Romania	1884	4.9	4.8	79.6	3.2	3.7	3.9	79.6	0.6	0.1	3.2	78.3	81.0
Russian Federation	2046	3.4	2.5	86.3	3.8	1.8	2.1	86.3	0.0	0.2	1.9	85.2	87.5
Scotland	1460	1.3	2.3	90.0	4.4	1.0	0.9	90.0	0.1	0.2	0.6	89.9	90.2
Singapore	1815	2.1	2.1	91.3	3.4	0.8	0.3	91.3	0.0	0.0	0.3	90.8	91.8
Slovak Republic	1779	3.0	2.8	87.4	2.9	2.1	1.8	87.4	0.1	0.2	1.5	86.2	88.6
Slovenia	1452	0.9	3.9	93.3	1.1	0.5	0.3	93.3	0.0	0.0	0.3	92.9	93.7
South Africa	2598	12.7	14.9	37.9	13.4	15.5	5.5	37.9	0.3	1.0	4.2	36.8	39.1
Spain	1873	2.2	3.0	89.7	2.8	1.7	0.7	89.7	0.0	0.0	0.7	89.3	90.1
Sweden	1386	1.1	3.0	92.0	2.2	1.2	0.5	92.0	0.1	0.1	0.3	91.7	92.5
Switzerland	2054	0.8	4.8	88.1	4.0	0.9	1.4	88.1	0.1	0.2	1.1	89.3	86.9
Thailand	2907	2.0	6.6	87.1	1.8	2.1	0.4	87.1	0.0	0.1	0.4	87.0	87.3
United States	1936	1.9	3.4	88.0	4.8	1.3	0.6	88.0	0.0	0.0	0.6	88.7	87.4
INTERNATIONAL AVG	.	2.6	4.5	85.8	3.8	2.0	1.3	85.8	0.1	0.2	1.1	85.7	85.8

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: B05 KEY: A  
 Use elevation/weather diagram to locate earth feature. (Earth Science)  
 Difficulty: 592

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2783	46.0	7.8	6.0	19.1	20.1	1.0	46.0	0.0	0.3	0.8	47.6	44.3
Austria	1487	50.7	5.4	4.0	26.9	10.9	2.0	50.7	0.0	0.2	1.8	47.2	54.0
Belgium (Fl)	1372	46.7	19.3	4.2	16.1	12.6	1.0	46.7	0.0	0.1	1.0	48.3	45.1
Belgium (Fr)	1133	42.2	5.4	4.9	20.1	22.5	4.9	42.2	0.2	0.2	4.6	44.8	39.0
Bulgaria	968	53.2	11.3	3.9	6.9	18.4	6.2	53.2	0.3	0.0	6.0	53.4	52.6
Canada	4110	45.8	9.6	4.3	19.3	20.6	0.3	45.8	0.0	0.0	0.3	43.4	48.1
Colombia	1321	36.5	17.2	9.8	8.1	22.4	6.0	36.5	0.4	1.3	4.3	31.6	41.0
Cyprus	1418	39.3	7.7	8.8	13.8	26.5	3.9	39.3	0.6	0.0	3.4	38.4	40.1
Czech Republic	1663	44.5	15.5	3.6	12.7	22.1	1.5	44.5	0.3	0.0	1.2	40.8	48.4
Denmark	967	41.8	8.3	9.9	18.1	14.6	7.4	41.8	0.5	0.5	6.4	40.2	42.9
England	887	39.7	7.9	5.5	28.4	17.0	1.4	39.7	0.0	0.0	1.4	39.2	40.0
France	1513	44.0	5.7	4.4	18.9	24.2	2.8	44.0	0.9	0.0	1.9	42.8	44.7
Germany	1448	49.5	7.6	5.4	18.7	13.1	5.6	49.5	0.8	0.2	4.6	50.7	48.5
Greece	1952	43.7	4.6	7.4	16.2	25.2	2.8	43.7	0.3	0.1	2.4	45.7	42.0
Hong Kong	1705	37.4	34.1	2.5	10.9	14.6	0.5	37.4	0.1	0.1	0.4	32.5	41.3
Hungary	1539	66.1	5.0	5.2	10.3	11.1	2.4	66.1	0.0	0.2	2.1	66.6	65.5
Iceland	970	54.5	8.4	10.0	15.3	10.2	1.7	54.5	0.2	0.0	1.4	49.7	59.3
Iran, Islamic Rep.	1868	28.5	16.9	9.2	23.7	19.1	2.8	28.5	0.7	0.0	2.0	26.5	29.7
Ireland	1585	40.5	5.4	6.2	31.5	15.4	1.0	40.5	0.2	0.0	0.7	39.1	42.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2558	45.4	16.1	1.9	17.3	19.1	0.2	45.4	0.1	0.0	0.1	43.4	47.3
Korea	1440	51.8	10.0	4.4	8.5	24.9	0.4	51.8	0.0	0.1	0.3	46.6	55.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1276	44.0	16.1	5.9	11.0	17.6	5.5	44.0	0.0	0.2	5.3	43.9	44.0
Lithuania	1256	38.7	9.4	5.6	6.6	31.6	8.1	38.7	0.3	0.5	7.3	39.2	38.2
Netherlands	1046	56.7	11.4	6.2	12.6	12.6	0.5	56.7	0.0	0.1	0.4	55.7	57.9
New Zealand	1588	45.8	10.4	9.9	18.0	15.0	0.9	45.8	0.1	0.0	0.7	45.0	46.6
Norway	1236	48.3	6.1	7.2	20.9	14.8	2.6	48.3	0.0	0.3	2.3	53.4	43.8
Philippines	2922	42.9	9.1	9.7	16.8	21.1	0.4	42.9	0.1	0.0	0.3	42.5	43.3
Portugal	1676	52.1	7.4	7.3	16.2	14.6	2.4	52.1	0.0	0.1	2.2	50.9	53.4
Romania	1882	37.2	7.3	6.0	15.5	28.9	5.2	37.2	2.0	0.1	3.1	36.6	38.1
Russian Federation	2046	47.5	10.5	4.4	7.9	26.4	3.3	47.5	0.1	0.3	3.0	46.3	48.7
Scotland	1460	40.5	8.5	7.1	26.1	16.5	1.4	40.5	0.0	0.2	1.1	38.1	42.9
Singapore	1815	31.7	11.9	8.5	16.0	30.8	1.1	31.7	0.0	0.0	1.1	29.9	33.4
Slovak Republic	1779	52.7	14.9	3.1	9.6	17.1	2.6	52.7	0.2	0.2	2.2	54.3	51.1
Slovenia	1452	58.4	5.5	4.3	11.4	17.8	2.6	58.4	0.4	0.0	2.3	57.2	59.5
South Africa	2598	32.4	8.2	9.6	17.1	29.1	3.7	32.4	0.5	1.1	2.1	32.2	32.5
Spain	1873	39.6	6.8	6.0	9.8	36.3	1.4	39.6	0.0	0.0	1.4	41.9	37.4
Sweden	1386	51.1	9.7	5.3	12.6	20.1	1.2	51.1	0.1	0.1	1.0	53.8	48.6
Switzerland	2055	54.9	6.0	4.1	20.0	13.0	2.0	54.9	0.2	0.3	1.5	53.4	56.5
Thailand	2907	37.0	7.6	4.7	14.3	36.0	0.5	37.0	0.0	0.1	0.4	38.6	34.5
United States	1936	46.9	9.5	8.5	21.9	12.7	0.4	46.9	0.0	0.0	0.4	46.9	47.0
INTERNATIONAL AVG	.	45.2	10.1	6.1	16.1	19.9	2.5	45.2	0.2	0.2	2.1	44.5	45.7

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: B06 KEY: A  
 Relate color of object to amount of light reflection. (Physics)  
 Difficulty: 352

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2783	83.9	3.9	9.6	2.2	0.4	83.9	0.0	0.3	0.1	84.0	83.8
Austria	1487	86.4	1.6	10.0	0.8	1.2	86.4	0.0	0.2	1.1	85.5	87.6
Belgium (Fl)	1372	94.2	1.5	3.0	1.1	0.2	94.2	0.0	0.1	0.1	94.0	94.4
Belgium (Fr)	1133	83.4	3.5	10.9	0.7	1.5	83.4	0.2	0.2	1.1	83.1	83.5
Bulgaria	968	79.6	4.7	12.4	1.4	1.9	79.6	0.4	0.0	1.4	79.1	80.1
Canada	4110	76.1	4.3	16.6	2.6	0.4	76.1	0.0	0.0	0.4	75.0	77.2
Colombia	1321	67.9	17.3	4.5	7.6	2.7	67.9	0.4	1.8	0.6	67.1	68.4
Cyprus	1418	62.0	16.7	16.8	2.6	1.8	62.0	0.2	0.0	1.6	62.9	61.3
Czech Republic	1664	87.1	3.1	7.8	1.5	0.5	87.1	0.2	0.0	0.3	84.0	90.4
Denmark	967	75.1	10.7	8.7	3.8	1.7	75.1	0.1	0.5	1.1	71.9	78.5
England	887	85.8	3.4	9.4	1.1	0.3	85.8	0.0	0.0	0.3	85.8	85.7
France	1513	78.8	4.4	11.8	4.0	1.0	78.8	0.3	0.0	0.7	80.9	77.7
Germany	1448	91.4	1.8	4.7	0.9	1.3	91.4	0.4	0.2	0.7	90.9	91.9
Greece	1952	77.4	4.9	15.1	1.7	0.8	77.4	0.2	0.1	0.5	77.9	77.1
Hong Kong	1705	79.2	5.6	11.6	3.3	0.3	79.2	0.0	0.1	0.2	78.1	80.0
Hungary	1539	89.4	2.7	4.8	2.0	1.1	89.4	0.0	0.4	0.7	89.0	89.9
Iceland	970	77.2	6.5	7.7	7.4	1.2	77.2	0.5	0.0	0.7	78.3	76.1
Iran, Islamic Rep.	1868	86.6	4.1	3.4	4.9	1.0	86.6	0.3	0.0	0.6	86.9	86.3
Ireland	1585	72.5	6.9	16.1	3.8	0.7	72.5	0.5	0.0	0.2	71.0	74.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	2558	80.7	3.8	13.0	2.4	0.1	80.7	0.1	0.0	0.1	79.1	82.2
Korea	1440	77.1	7.7	12.6	2.2	0.3	77.1	0.0	0.1	0.3	74.4	79.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	1276	77.0	8.0	6.7	6.2	2.2	77.0	0.0	0.2	2.0	77.3	76.5
Lithuania	1255	74.2	6.4	7.3	9.2	2.8	74.2	0.1	0.5	2.2	73.3	75.1
Netherlands	1046	90.9	2.5	5.3	1.1	0.3	90.9	0.1	0.1	0.1	91.1	90.7
New Zealand	1588	76.4	5.3	15.1	2.5	0.6	76.4	0.0	0.1	0.5	76.2	76.6
Norway	1236	78.0	8.9	9.6	2.6	0.8	78.0	0.0	0.4	0.5	75.9	79.8
Philippines	2922	77.3	10.5	6.1	5.8	0.3	77.3	0.0	0.0	0.3	77.2	77.5
Portugal	1676	75.5	7.5	12.2	4.0	0.9	75.5	0.0	0.2	0.7	74.7	76.4
Romania	1877	79.2	3.0	10.7	4.4	2.7	79.2	1.8	0.2	0.7	79.3	78.9
Russian Federation	2047	79.2	5.2	7.8	6.5	1.4	79.2	0.3	0.4	0.7	77.2	81.2
Scotland	1460	81.0	3.6	11.1	3.3	1.0	81.0	0.3	0.2	0.4	77.7	84.3
Singapore	1815	82.5	5.6	7.9	3.8	0.1	82.5	0.0	0.0	0.1	83.4	81.7
Slovak Republic	1780	87.2	3.5	6.0	2.5	0.8	87.2	0.2	0.2	0.4	86.0	88.3
Slovenia	1452	88.6	3.3	6.3	1.4	0.4	88.6	0.2	0.0	0.2	86.9	90.2
South Africa	2598	68.8	10.5	11.4	5.8	3.5	68.8	0.4	1.1	1.9	68.4	69.4
Spain	1873	83.8	5.1	8.8	1.8	0.4	83.8	0.0	0.0	0.4	83.2	84.5
Sweden	1386	78.0	6.5	14.1	0.9	0.4	78.0	0.1	0.1	0.3	77.9	78.0
Switzerland	2055	83.7	3.6	10.1	1.6	1.1	83.7	0.3	0.3	0.5	85.8	81.5
Thailand	2907	68.0	22.4	2.6	6.6	0.4	68.0	0.0	0.1	0.4	67.2	69.0
United States	1936	80.4	3.6	13.5	2.0	0.4	80.4	0.1	0.0	0.3	78.2	82.6
INTERNATIONAL AVG	.	80.0	6.1	9.6	3.3	1.0	80.0	0.2	0.2	0.6	79.4	80.7

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: C07 KEY: B  
 Relate mountain shape to age. (Earth Science)  
 Difficulty: 659

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2072	13.5	33.0	33.8	18.1	1.6	33.0	0.0	0.0	1.6	29.8	36.2
Austria	1141	16.1	24.9	41.1	16.3	1.6	24.9	0.0	0.0	1.6	20.5	28.4
Belgium (Fl)	1036	10.8	67.0	14.1	7.5	0.6	67.0	0.0	0.1	0.5	60.8	73.4
Belgium (Fr)	854	13.8	40.4	24.1	19.6	2.1	40.4	0.5	0.2	1.4	37.2	42.9
Bulgaria	637	13.5	50.4	25.5	8.0	2.6	50.4	0.4	0.5	1.7	50.1	50.5
Canada	3073	13.3	35.1	29.7	20.1	1.9	35.1	0.9	0.0	0.9	29.6	40.3
Colombia	996	15.8	5.9	37.0	33.7	7.5	5.9	0.7	2.3	4.5	5.3	6.4
Cyprus	1151	14.6	17.1	35.7	27.2	5.5	17.1	1.8	1.1	2.6	14.9	19.2
Czech Republic	1260	18.7	31.2	36.8	11.0	2.2	31.2	0.1	0.8	1.3	28.9	33.6
Denmark	824	13.1	28.9	35.0	18.6	4.3	28.9	1.4	1.4	1.5	25.2	32.9
England	673	13.3	30.8	31.9	22.5	1.5	30.8	0.0	0.0	1.5	28.8	32.4
France	1131	12.8	55.6	14.0	13.7	3.9	55.6	3.0	0.2	0.7	50.9	60.3
Germany	1073	16.3	24.7	39.0	16.4	3.7	24.7	1.7	0.7	1.2	21.3	27.4
Greece	1468	20.6	14.9	42.0	20.4	2.1	14.9	0.5	0.6	1.1	12.5	17.5
Hong Kong	1284	22.2	20.6	40.8	15.9	0.4	20.6	0.1	0.1	0.3	15.5	25.0
Hungary	1153	4.8	62.3	15.1	11.8	6.0	62.3	0.0	0.4	5.6	56.2	67.9
Iceland	720	7.9	11.0	60.9	18.3	1.9	11.0	0.3	0.7	1.0	7.9	13.9
Iran, Islamic Rep.	1421	10.9	44.4	24.2	17.6	3.0	44.4	1.6	0.4	1.0	41.6	46.3
Ireland	1174	17.5	39.1	23.6	18.2	1.7	39.1	1.4	0.1	0.2	37.1	41.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1916	16.7	34.7	31.3	16.8	0.5	34.7	0.3	0.0	0.2	32.0	37.3
Korea	1096	9.1	43.0	28.9	18.8	0.1	43.0	0.0	0.0	0.1	45.1	41.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	966	6.5	33.3	39.5	18.1	2.6	33.3	0.0	0.9	1.7	28.9	37.6
Lithuania	942	6.9	38.1	35.3	12.7	7.1	38.1	1.8	1.4	3.8	32.2	43.7
Netherlands	769	19.7	26.9	36.9	16.3	0.3	26.9	0.0	0.0	0.2	26.2	27.6
New Zealand	1191	11.8	23.0	38.2	26.0	1.0	23.0	0.4	0.3	0.3	20.5	25.4
Norway	930	13.5	36.9	30.2	16.3	3.2	36.9	0.0	0.6	2.5	35.3	38.6
Philippines	2202	14.2	11.0	46.0	28.1	0.8	11.0	0.0	0.4	0.4	8.1	14.4
Portugal	1266	15.6	38.6	23.6	18.4	3.9	38.6	0.0	0.6	3.4	32.5	45.0
Romania	1402	8.1	54.8	17.4	13.5	6.1	54.8	3.6	0.9	1.6	49.3	60.0
Russian Federation	1549	13.4	49.9	18.9	14.1	3.8	49.9	0.5	1.1	2.2	44.6	55.6
Scotland	1081	16.2	21.5	31.2	27.9	3.2	21.5	2.4	0.1	0.7	19.2	23.7
Singapore	1380	14.4	28.1	26.5	30.5	0.4	28.1	0.0	0.0	0.4	29.2	27.0
Slovak Republic	1366	8.9	36.3	39.9	12.3	2.7	36.3	0.4	0.7	1.6	28.8	44.3
Slovenia	1101	21.1	43.3	24.6	9.2	1.8	43.3	1.3	0.0	0.5	37.0	50.6
South Africa	2040	22.8	15.2	32.1	25.7	4.2	15.2	1.4	1.3	1.5	13.5	17.6
Spain	1408	13.3	52.5	18.4	12.7	3.2	52.5	0.0	0.6	2.5	46.1	59.1
Sweden	1041	10.5	51.5	23.7	13.1	1.1	51.5	0.5	0.4	0.2	50.5	52.8
Switzerland	1542	13.6	25.5	33.7	25.0	2.3	25.5	1.0	0.2	1.0	21.2	29.6
Thailand	2243	8.8	19.8	52.8	18.0	0.6	19.8	0.0	0.0	0.6	19.6	20.1
United States	1425	16.1	37.9	30.8	14.5	0.6	37.9	0.1	0.1	0.4	35.6	40.3
INTERNATIONAL AVG	.	13.8	34.0	31.6	18.1	2.6	34.0	0.7	0.5	1.4	30.7	37.2

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: C08 KEY: D  
 Identify carrier of signals from eye to brain. (Life Science)  
 Difficulty: 451

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2072	8.5	5.6	3.9	72.1	8.9	1.0	72.1	0.0	0.0	1.0	73.9	70.2
Austria	1141	15.5	2.3	1.9	73.1	4.8	2.5	73.1	0.0	0.0	2.5	76.2	69.9
Belgium (Fl)	1036	2.1	2.0	2.6	87.1	5.3	0.8	87.1	0.0	0.2	0.6	87.3	86.9
Belgium (Fr)	854	9.0	7.9	3.9	71.1	3.6	4.6	71.1	0.1	0.3	4.2	71.7	69.5
Bulgaria	637	9.1	5.6	3.4	77.3	1.4	3.2	77.3	0.3	0.7	2.2	80.1	73.6
Canada	3073	12.5	10.7	3.7	65.5	6.0	1.6	65.5	0.1	0.1	1.4	64.6	66.2
Colombia	996	13.0	6.0	7.3	59.7	6.7	7.4	59.7	0.3	2.5	4.5	57.7	62.0
Cyprus	1151	18.7	15.3	8.2	43.2	9.8	4.9	43.2	0.4	1.3	3.2	43.5	43.0
Czech Republic	1260	2.4	4.8	1.9	87.1	1.9	1.9	87.1	0.1	1.0	0.8	88.3	85.8
Denmark	824	17.4	9.2	6.7	48.6	9.8	8.3	48.6	0.8	1.6	5.9	49.8	48.4
England	673	12.7	6.7	3.2	69.4	6.8	1.2	69.4	0.0	0.0	1.2	67.4	71.0
France	1131	9.0	6.8	6.2	67.4	6.2	4.5	67.4	0.7	0.3	3.4	65.5	69.6
Germany	1073	12.4	2.7	3.2	70.7	5.1	5.8	70.7	1.0	0.9	3.9	73.1	68.3
Greece	1468	13.6	7.1	7.7	64.3	4.7	2.4	64.3	0.1	0.6	1.7	65.9	62.9
Hong Kong	1284	3.0	4.9	0.9	88.2	2.2	0.8	88.2	0.1	0.1	0.7	90.1	86.6
Hungary	1153	21.4	3.6	1.0	61.9	6.2	5.9	61.9	0.0	0.8	5.1	60.8	62.9
Iceland	720	5.0	0.7	1.8	82.2	7.6	2.7	82.2	0.2	0.9	1.6	85.1	79.5
Iran, Islamic Rep.	1421	4.9	2.0	5.4	82.9	3.9	1.0	82.9	0.0	0.4	0.6	86.6	80.1
Ireland	1174	20.1	9.4	4.2	57.2	7.8	1.2	57.2	0.4	0.1	0.7	56.5	58.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1916	5.2	11.8	0.5	76.2	6.0	0.2	76.2	0.0	0.0	0.2	75.1	77.3
Korea	1096	4.3	5.9	1.1	83.3	5.3	0.1	83.3	0.0	0.0	0.1	85.3	81.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	966	19.7	8.2	2.6	59.3	4.2	6.0	59.3	0.0	0.9	5.1	59.9	58.5
Lithuania	942	18.9	13.0	2.8	41.5	3.9	19.8	41.5	0.5	1.4	17.8	40.6	42.5
Netherlands	769	1.9	3.1	3.9	88.2	2.5	0.5	88.2	0.0	0.0	0.5	88.3	88.1
New Zealand	1191	15.9	7.7	3.2	60.7	10.4	2.1	60.7	0.3	0.5	1.3	58.0	63.1
Norway	930	16.5	7.0	7.5	51.5	14.2	3.3	51.5	0.0	0.9	2.4	52.8	50.1
Philippines	2202	9.7	15.6	4.5	55.2	13.9	1.1	55.2	0.0	0.4	0.7	56.1	54.2
Portugal	1266	28.9	17.3	5.0	29.5	14.6	4.8	29.5	0.0	0.6	4.1	28.5	30.5
Romania	1406	7.5	6.0	4.9	71.7	3.4	6.5	71.7	2.0	1.1	3.3	70.6	72.9
Russian Federation	1548	20.6	3.4	3.1	60.0	4.8	8.2	60.0	0.1	1.2	6.9	59.3	60.7
Scotland	1081	21.7	9.8	4.2	51.3	11.5	1.4	51.3	0.2	0.1	1.0	51.5	51.3
Singapore	1380	7.9	7.8	1.6	73.8	8.6	0.4	73.8	0.0	0.0	0.4	76.1	71.3
Slovak Republic	1366	4.6	3.7	2.0	84.8	2.5	2.4	84.8	0.1	0.9	1.4	84.1	85.6
Slovenia	1101	6.3	3.2	3.0	80.8	4.7	1.9	80.8	0.3	0.0	1.6	81.2	80.4
South Africa	2040	9.5	10.9	20.2	36.2	19.3	3.9	36.2	0.3	1.4	2.1	35.9	36.5
Spain	1408	12.6	6.7	1.6	72.1	5.2	1.9	72.1	0.0	0.8	1.0	69.9	74.3
Sweden	1041	12.8	3.2	4.4	64.4	13.4	1.7	64.4	0.2	0.4	1.1	64.8	64.1
Switzerland	1542	25.2	8.3	3.7	50.3	9.7	2.8	50.3	0.1	0.3	2.3	52.3	48.2
Thailand	2243	2.0	1.6	1.2	93.6	1.2	0.4	93.6	0.0	0.0	0.4	94.1	92.9
United States	1425	5.3	5.7	2.8	80.7	4.4	1.1	80.7	0.1	0.1	0.9	80.6	80.8
INTERNATIONAL AVG	.	11.7	6.8	4.0	67.4	6.8	3.3	67.4	0.2	0.6	2.5	67.7	67.0

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: C09 KEY: B  
 Identify correct position of reflected image. (Physics)  
 Difficulty: 441

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2072	4.7	72.8	5.2	16.6	0.7	72.8	0.0	0.0	0.7	72.2	73.5
Austria	1141	3.5	76.5	3.9	15.2	0.9	76.5	0.0	0.1	0.7	77.0	76.6
Belgium (Fl)	1036	2.0	88.0	2.8	6.8	0.4	88.0	0.0	0.2	0.2	87.3	88.8
Belgium (Fr)	854	3.1	77.4	2.4	15.0	2.0	77.4	0.3	0.4	1.3	75.2	80.6
Bulgaria	637	5.8	69.1	5.9	16.3	2.9	69.1	0.1	0.7	2.1	70.1	67.7
Canada	3073	4.0	75.6	3.7	16.0	0.7	75.6	0.0	0.1	0.6	73.2	78.1
Colombia	996	10.3	48.4	7.8	25.6	7.9	48.4	0.8	2.5	4.6	40.1	56.6
Cyprus	1151	9.2	55.4	7.9	24.4	3.1	55.4	0.3	1.3	1.4	52.2	58.5
Czech Republic	1253	2.4	74.0	4.0	17.3	2.3	74.0	0.4	1.1	0.8	70.0	78.1
Denmark	824	3.6	73.3	4.9	13.4	4.8	73.3	0.3	1.8	2.7	73.4	73.1
England	673	3.3	80.0	3.3	13.1	0.3	80.0	0.0	0.0	0.3	74.9	84.2
France	1131	1.6	88.8	1.4	7.3	1.0	88.8	0.1	0.4	0.5	88.5	89.2
Germany	1073	4.2	75.3	2.8	15.3	2.3	75.3	0.4	0.9	1.0	73.8	76.6
Greece	1468	7.4	55.7	6.3	28.4	2.3	55.7	0.3	0.6	1.4	54.4	56.6
Hong Kong	1284	5.7	73.8	5.1	15.1	0.3	73.8	0.1	0.1	0.2	68.1	78.8
Hungary	1153	1.4	84.5	3.6	8.0	2.5	84.5	0.0	0.9	1.7	81.7	87.1
Iceland	720	2.7	84.2	3.2	8.5	1.3	84.2	0.0	0.9	0.4	82.7	85.7
Iran, Islamic Rep.	1420	8.2	61.8	10.4	18.3	1.4	61.8	0.1	0.4	0.8	56.4	65.9
Ireland	1174	6.8	62.9	7.3	22.5	0.5	62.9	0.3	0.1	0.1	57.2	69.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1916	5.0	81.3	2.1	11.7	0.0	81.3	0.0	0.0	0.0	79.6	82.9
Korea	1096	3.6	76.3	3.3	16.4	0.4	76.3	0.0	0.0	0.4	73.3	78.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	970	5.0	67.2	7.7	15.9	4.3	67.2	0.0	1.0	3.3	64.0	70.6
Lithuania	942	5.6	60.8	11.2	17.6	4.7	60.8	0.1	1.6	3.0	58.9	62.6
Netherlands	769	1.0	87.2	1.9	9.3	0.5	87.2	0.0	0.2	0.3	86.6	87.9
New Zealand	1190	2.7	74.3	4.7	17.7	0.7	74.3	0.1	0.5	0.1	73.4	75.1
Norway	930	4.8	62.8	7.1	23.2	2.0	62.8	0.0	1.0	1.0	62.4	63.3
Philippines	2202	9.1	41.1	15.9	32.7	1.1	41.1	0.0	0.4	0.7	38.2	44.3
Portugal	1266	4.4	65.7	6.1	21.4	2.3	65.7	0.0	0.7	1.6	64.2	67.3
Romania	1403	9.7	47.1	10.7	25.8	6.8	47.1	3.7	1.3	1.8	44.4	49.9
Russian Federation	1549	2.7	73.5	5.7	15.0	3.2	73.5	0.1	1.4	1.6	70.1	77.2
Scotland	1081	2.6	84.5	2.3	10.0	0.6	84.5	0.2	0.3	0.1	81.5	87.6
Singapore	1380	4.4	74.2	3.2	18.1	0.2	74.2	0.0	0.0	0.2	67.0	81.8
Slovak Republic	1366	4.7	66.9	4.5	21.8	2.1	66.9	0.1	0.9	1.0	63.8	70.1
Slovenia	1101	3.1	75.2	3.4	16.9	1.4	75.2	0.8	0.0	0.7	73.1	77.6
South Africa	2040	11.2	28.3	22.3	35.1	3.0	28.3	0.7	1.5	0.9	24.8	33.0
Spain	1408	5.5	67.8	6.2	19.1	1.5	67.8	0.0	0.9	0.6	64.1	71.7
Sweden	1040	6.4	58.9	8.6	24.9	1.2	58.9	0.0	0.4	0.8	55.7	62.5
Switzerland	1542	3.5	77.5	3.1	15.0	1.0	77.5	0.1	0.6	0.3	76.8	78.1
Thailand	2243	9.8	55.8	7.8	26.3	0.4	55.8	0.0	0.0	0.4	55.6	55.9
United States	1425	5.3	69.3	4.6	19.6	1.1	69.3	0.0	0.1	1.0	65.6	73.0
INTERNATIONAL AVG	.	5.0	69.3	5.9	17.9	1.9	69.3	0.2	0.6	1.0	66.8	71.9

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: C10 KEY: C  
 Use physical description to identify substance as solution, compound, mixture or element. (Chemistry)  
 Difficulty: 410

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2072	9.4	8.5	73.5	7.7	0.9	73.5	0.0	0.0	0.9	72.3	74.8
Austria	1141	2.8	7.1	83.1	6.0	1.0	83.1	0.0	0.1	0.9	82.7	82.7
Belgium (Fl)	1036	4.4	3.5	89.0	1.8	1.2	89.0	0.0	0.3	0.9	88.5	89.6
Belgium (Fr)	854	3.2	5.6	82.9	3.8	4.5	82.9	0.0	0.5	4.0	82.6	82.6
Bulgaria	637	3.0	4.2	86.5	3.7	2.6	86.5	0.4	0.7	1.5	89.0	83.2
Canada	3073	5.2	8.1	76.5	9.1	1.1	76.5	0.0	0.1	1.0	76.9	75.8
Colombia	996	2.2	7.9	77.5	5.9	6.5	77.5	0.1	2.6	3.8	77.3	77.7
Cyprus	1151	9.0	11.9	67.3	8.3	3.4	67.3	0.2	1.4	1.8	67.7	67.1
Czech Republic	1260	2.0	11.3	82.4	2.0	2.3	82.4	0.0	1.4	0.9	81.8	82.9
Denmark	824	4.1	9.5	64.4	12.9	9.2	64.4	0.6	2.0	6.6	64.3	65.0
England	673	8.6	7.5	70.8	12.4	0.7	70.8	0.0	0.0	0.7	67.1	73.9
France	1131	2.2	6.1	83.9	4.3	3.5	83.9	0.3	0.4	2.8	83.9	84.7
Germany	1073	3.4	4.3	81.4	6.2	4.6	81.4	0.3	0.9	3.4	82.5	80.1
Greece	1468	4.7	24.5	63.2	5.4	2.3	63.2	0.0	0.7	1.6	64.5	62.2
Hong Kong	1284	3.9	17.3	65.2	13.1	0.6	65.2	0.1	0.1	0.4	63.7	66.6
Hungary	1153	2.9	5.1	86.4	2.5	3.1	86.4	0.0	0.9	2.1	87.7	85.2
Iceland	720	13.3	6.7	55.9	21.6	2.5	55.9	0.0	0.9	1.5	57.7	54.2
Iran, Islamic Rep.	1420	6.9	22.9	57.4	11.7	1.1	57.4	0.1	0.4	0.5	59.0	56.2
Ireland	1174	8.1	8.8	77.7	4.6	0.8	77.7	0.2	0.1	0.5	75.3	80.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1916	2.6	7.2	87.1	2.9	0.2	87.1	0.0	0.0	0.2	87.9	86.4
Korea	1096	1.3	13.2	73.4	11.9	0.2	73.4	0.0	0.1	0.1	75.2	72.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	965	5.9	5.3	73.7	9.5	5.7	73.7	0.0	1.3	4.4	74.7	72.4
Lithuania	942	7.0	3.7	70.6	5.2	13.4	70.6	0.0	1.6	11.7	73.4	68.0
Netherlands	769	3.5	2.7	87.0	5.9	0.9	87.0	0.0	0.2	0.7	89.1	84.7
New Zealand	1192	7.4	11.0	72.5	8.3	0.8	72.5	0.0	0.5	0.3	71.9	73.1
Norway	930	1.8	13.8	65.1	16.6	2.7	65.1	0.0	1.0	1.7	69.1	61.1
Philippines	2201	17.0	16.1	50.8	15.0	1.1	50.8	0.0	0.4	0.7	49.9	51.9
Portugal	1266	6.1	6.6	77.3	5.6	4.3	77.3	0.0	0.7	3.6	77.1	77.5
Romania	1406	7.3	7.1	76.6	4.3	4.7	76.6	0.9	1.6	2.2	78.6	74.6
Russian Federation	1549	11.4	5.4	66.1	8.5	8.5	66.1	0.4	1.6	6.5	68.0	64.2
Scotland	1081	14.3	14.1	61.5	9.2	0.9	61.5	0.0	0.4	0.5	58.4	64.3
Singapore	1380	5.1	11.7	74.9	8.0	0.4	74.9	0.0	0.0	0.4	74.6	75.2
Slovak Republic	1366	4.2	3.6	86.9	2.8	2.4	86.9	0.1	0.9	1.4	86.6	87.3
Slovenia	1102	4.1	8.6	82.4	3.8	1.1	82.4	0.3	0.0	0.8	82.8	81.9
South Africa	2040	21.0	12.3	52.6	11.0	3.2	52.6	0.3	1.6	1.4	53.7	52.3
Spain	1408	10.3	8.7	73.2	5.3	2.6	73.2	0.0	1.1	1.5	72.0	74.5
Sweden	1041	4.5	4.3	74.1	15.8	1.3	74.1	0.0	0.5	0.7	73.8	74.3
Switzerland	1542	3.6	5.8	77.0	11.3	2.3	77.0	0.1	0.6	1.6	78.5	75.6
Thailand	2243	20.1	30.2	37.6	11.5	0.7	37.6	0.0	0.0	0.7	35.2	41.1
United States	1425	4.4	9.4	77.9	7.0	1.2	77.9	0.0	0.1	1.1	78.4	77.4
INTERNATIONAL AVG	.	6.6	9.5	73.1	8.1	2.8	73.1	0.1	0.7	1.9	73.3	72.9

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent



Item: C11 KEY: A  
 Predict environmental effect of increased carbon dioxide in atmosphere. (Environment and other content)  
 Difficulty: 614

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2072	62.2	7.3	9.7	19.6	1.2	62.2	0.0	0.0	1.1	57.1	67.5
Austria	1141	39.8	5.1	10.9	40.1	4.2	39.8	0.0	0.1	4.0	34.0	47.4
Belgium (Fl)	1036	43.4	5.3	17.7	30.7	2.9	43.4	0.0	0.3	2.6	34.4	52.6
Belgium (Fr)	854	34.6	11.4	11.8	26.2	16.1	34.6	0.2	0.6	15.3	31.3	38.8
Bulgaria	637	45.3	5.5	14.1	28.4	6.8	45.3	0.2	1.0	5.6	44.8	45.6
Canada	3073	51.5	9.3	15.8	21.8	1.6	51.5	0.0	0.3	1.3	43.5	58.8
Colombia	996	55.3	3.5	8.3	24.0	8.9	55.3	0.8	2.9	5.2	48.8	61.9
Cyprus	1151	41.5	11.3	12.1	29.1	6.0	41.5	0.6	1.5	3.8	40.1	42.9
Czech Republic	1260	45.2	5.3	8.1	37.6	3.8	45.2	0.1	1.5	2.2	37.9	52.6
Denmark	824	31.5	11.3	16.3	26.0	14.9	31.5	0.3	2.4	12.3	24.8	38.3
England	673	57.2	6.3	13.3	22.0	1.3	57.2	0.0	0.0	1.3	51.6	61.7
France	1131	35.8	8.6	16.6	30.7	8.3	35.8	1.2	0.5	6.6	29.6	42.0
Germany	1073	35.9	3.1	8.8	38.6	13.7	35.9	3.4	1.3	9.0	28.5	43.6
Greece	1468	28.9	7.7	9.2	48.2	6.0	28.9	0.1	0.7	5.3	27.9	30.1
Hong Kong	1284	35.8	11.8	11.7	40.0	0.7	35.8	0.0	0.1	0.6	27.8	42.4
Hungary	1153	36.5	6.2	15.5	35.4	6.5	36.5	0.0	1.3	5.2	31.3	41.2
Iceland	720	26.0	9.4	18.2	43.0	3.4	26.0	0.2	1.1	2.0	20.9	30.8
Iran, Islamic Rep.	1420	28.8	8.8	13.2	45.6	3.6	28.8	0.0	0.4	3.1	25.3	31.4
Ireland	1174	50.2	6.6	14.1	28.4	0.7	50.2	0.1	0.1	0.5	42.0	59.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1916	56.4	8.5	10.5	24.1	0.5	56.4	0.1	0.1	0.4	52.0	60.6
Korea	1096	52.0	13.2	11.8	22.2	0.7	52.0	0.0	0.1	0.6	46.0	56.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	965	36.2	7.2	16.6	29.9	10.0	36.2	0.0	1.3	8.7	32.1	40.2
Lithuania	942	13.9	4.4	13.8	45.1	22.8	13.9	0.2	2.3	20.3	11.4	16.2
Netherlands	769	57.6	7.3	14.7	17.9	2.4	57.6	0.0	0.2	2.3	57.6	57.8
New Zealand	1192	49.9	11.3	12.2	25.2	1.4	49.9	0.2	0.5	0.7	41.1	57.9
Norway	930	51.6	10.3	15.5	19.6	3.0	51.6	0.0	1.1	1.9	43.6	59.9
Philippines	2192	33.2	10.9	23.6	31.3	1.0	33.2	0.0	0.6	0.5	32.0	34.7
Portugal	1266	37.7	5.7	15.3	38.0	3.3	37.7	0.0	1.3	2.0	31.9	43.9
Romania	1406	37.0	8.4	16.9	29.5	8.2	37.0	1.7	1.7	4.8	33.1	40.8
Russian Federation	1549	27.4	5.8	8.8	48.2	9.8	27.4	0.1	2.0	7.7	25.2	29.7
Scotland	1081	49.4	9.1	13.1	26.0	2.4	49.4	0.1	0.4	1.9	43.7	55.0
Singapore	1380	66.6	6.3	13.2	13.0	1.0	66.6	0.0	0.0	1.0	63.2	70.1
Slovak Republic	1366	32.3	3.5	11.4	47.0	5.7	32.3	0.3	1.2	4.2	26.0	39.2
Slovenia	1102	32.7	5.0	13.6	44.4	4.3	32.7	0.5	0.0	3.8	28.1	38.1
South Africa	2040	28.1	19.7	13.6	33.7	4.8	28.1	0.3	1.8	2.7	26.3	30.6
Spain	1408	38.7	7.4	15.2	34.1	4.7	38.7	0.0	1.3	3.4	34.0	43.8
Sweden	1040	48.8	11.5	13.3	24.4	2.0	48.8	0.0	0.7	1.3	43.2	54.7
Switzerland	1542	38.2	6.2	11.1	38.2	6.3	38.2	1.1	0.8	4.3	30.3	45.8
Thailand	2243	62.2	2.0	4.6	30.7	0.5	62.2	0.0	0.0	0.5	61.9	62.2
United States	1425	51.4	14.1	16.2	16.6	1.7	51.4	0.1	0.2	1.4	45.9	56.9
INTERNATIONAL AVG	.	42.2	8.0	13.3	31.4	5.2	42.2	0.3	0.8	4.0	37.3	47.1

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: C12 KEY: C  
 Identify substance which is NOT a fossil fuel. (Physics)  
 Difficulty: 570

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2072	3.4	14.5	49.0	32.2	0.8	49.0	0.0	0.1	0.7	46.8	51.4
Austria	1141	5.2	10.7	49.7	31.9	2.5	49.7	0.0	0.1	2.3	45.9	53.2
Belgium (Fl)	1036	3.2	8.2	59.6	27.0	2.1	59.6	0.0	0.3	1.8	55.0	64.3
Belgium (Fr)	854	4.8	16.1	24.9	42.3	11.9	24.9	0.7	0.9	10.3	22.7	27.1
Bulgaria	637	8.0	5.0	77.8	5.9	3.3	77.8	0.9	1.1	1.2	74.6	81.9
Canada	3073	3.7	8.3	64.2	21.9	1.9	64.2	0.1	0.5	1.3	62.3	65.9
Colombia	996	6.7	6.8	53.5	23.5	9.5	53.5	0.6	3.4	5.6	54.2	53.0
Cyprus	1151	13.6	13.3	29.8	38.7	4.7	29.8	0.3	1.5	2.9	28.8	30.6
Czech Republic	1260	2.1	16.2	51.0	26.0	4.7	51.0	0.9	1.7	2.1	55.1	46.8
Denmark	824	6.7	11.0	34.9	38.6	8.7	34.9	0.5	2.8	5.5	32.1	37.1
England	673	2.3	8.3	54.3	34.5	0.6	54.3	0.0	0.0	0.6	51.7	56.5
France	1131	6.9	15.0	32.6	39.5	5.9	32.6	0.8	0.8	4.3	31.6	33.1
Germany	1073	8.7	13.6	40.1	30.4	7.1	40.1	0.9	1.3	4.8	36.2	44.3
Greece	1468	4.7	4.2	38.0	49.5	3.6	38.0	0.7	0.9	1.9	36.1	39.8
Hong Kong	1284	3.1	3.1	62.6	30.5	0.6	62.6	0.2	0.1	0.4	58.6	65.9
Hungary	1153	3.1	18.6	15.6	53.5	9.2	15.6	0.0	2.1	7.1	13.3	17.7
Iceland	720	6.2	11.8	53.3	25.9	2.7	53.3	0.4	1.4	0.9	46.5	59.9
Iran, Islamic Rep.	1420	15.1	6.7	36.3	40.8	1.0	36.3	0.3	0.5	0.2	28.9	42.0
Ireland	1174	1.3	5.0	65.8	26.7	1.2	65.8	0.4	0.1	0.7	64.5	67.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1916	3.7	4.5	63.2	28.2	0.4	63.2	0.2	0.1	0.1	61.1	65.2
Korea	1096	1.3	5.0	65.7	27.6	0.3	65.7	0.0	0.1	0.3	64.4	66.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	964	4.3	12.8	58.3	16.6	8.0	58.3	0.0	1.6	6.3	61.1	55.2
Lithuania	942	1.6	1.2	78.4	13.0	5.8	78.4	0.7	2.3	2.7	79.5	77.3
Netherlands	769	5.7	14.0	65.1	13.1	2.0	65.1	0.1	0.2	1.7	64.1	66.0
New Zealand	1192	4.6	14.0	50.9	28.9	1.5	50.9	0.3	0.7	0.6	49.3	52.4
Norway	930	7.9	9.7	31.0	47.6	3.8	31.0	0.0	1.2	2.6	26.8	35.3
Philippines	2201	13.3	14.7	44.7	26.2	1.1	44.7	0.0	0.6	0.5	44.5	45.0
Portugal	1266	3.1	4.2	60.1	28.3	4.2	60.1	0.0	1.5	2.7	59.7	60.6
Romania	1402	6.2	12.9	35.0	32.7	13.2	35.0	7.1	1.9	4.2	37.2	32.4
Russian Federation	1549	2.9	10.4	61.1	22.0	3.7	61.1	0.4	2.1	1.1	57.6	64.9
Scotland	1081	2.7	7.5	54.2	34.0	1.5	54.2	0.1	0.4	1.1	54.3	54.2
Singapore	1380	2.6	5.0	74.1	17.7	0.7	74.1	0.0	0.0	0.7	75.2	73.0
Slovak Republic	1366	3.9	40.2	20.5	29.3	6.2	20.5	2.0	1.5	2.7	18.7	22.4
Slovenia	1102	4.4	7.3	57.5	27.6	3.2	57.5	0.8	0.1	2.3	58.4	56.6
South Africa	2040	8.4	21.9	31.3	34.5	3.9	31.3	0.6	1.8	1.5	30.5	32.5
Spain	1408	3.6	6.8	51.7	34.1	3.8	51.7	0.0	1.6	2.3	53.2	50.0
Sweden	1040	5.9	14.8	46.4	31.1	1.8	46.4	0.3	0.8	0.7	44.3	48.5
Switzerland	1542	11.8	17.1	37.3	29.9	3.9	37.3	0.6	0.8	2.4	33.4	41.3
Thailand	2243	8.3	7.9	49.3	33.7	0.8	49.3	0.0	0.0	0.8	47.7	51.7
United States	1425	3.4	5.6	71.8	17.6	1.7	71.8	0.0	0.2	1.4	72.6	71.1
INTERNATIONAL AVG	.	5.5	10.8	50.0	29.8	3.8	50.0	0.5	1.0	2.3	48.5	51.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: D01 KEY: B  
 Identify correct diagram of light rays through lens. (Physics)  
 Difficulty: 640

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2089	16.0	42.0	28.4	3.4	9.3	0.8	42.0	0.0	0.1	0.7	33.9	51.3
Austria	1124	13.3	32.7	38.7	3.7	9.9	1.7	32.7	0.0	0.0	1.7	19.7	46.0
Belgium (Fl)	1039	13.1	35.3	24.6	3.9	21.2	1.9	35.3	0.0	0.0	1.9	22.0	47.6
Belgium (Fr)	847	14.5	23.8	38.7	4.5	12.2	6.4	23.8	0.2	0.2	6.0	16.9	32.3
Bulgaria	795	10.0	67.6	9.1	2.9	6.9	3.5	67.6	0.2	0.0	3.2	64.1	71.3
Canada	3084	19.1	40.6	23.3	6.7	9.8	0.4	40.6	0.0	0.0	0.4	31.1	50.1
Colombia	990	29.2	14.9	29.4	3.1	17.0	6.5	14.9	0.4	1.6	4.5	11.0	18.8
Cyprus	1048	34.1	18.1	31.1	3.8	9.8	3.2	18.1	0.1	0.3	2.7	13.7	22.5
Czech Republic	1262	28.4	44.4	20.9	2.3	2.7	1.2	44.4	0.0	0.0	1.2	35.4	53.3
Denmark	694	18.0	44.9	19.6	3.7	7.8	6.0	44.9	0.3	0.9	4.8	31.9	58.2
England	677	18.2	28.5	35.6	6.2	11.2	0.2	28.5	0.0	0.0	0.2	21.8	34.6
France	1109	18.0	23.3	37.9	5.6	12.9	2.3	23.3	0.1	0.1	2.1	16.4	29.8
Germany	1076	7.5	41.3	36.8	2.4	7.3	4.7	41.3	0.4	0.1	4.2	32.9	50.0
Greece	1458	32.5	27.6	24.4	3.0	10.3	2.2	27.6	0.1	0.1	1.9	18.4	35.7
Hong Kong	1274	10.9	33.3	43.1	4.6	7.5	0.6	33.3	0.0	0.0	0.6	26.8	38.3
Hungary	1152	15.7	38.3	14.2	4.3	23.4	4.1	38.3	0.0	0.6	3.5	24.4	52.6
Iceland	738	19.5	32.0	32.2	3.7	10.9	1.8	32.0	0.4	0.1	1.3	23.3	39.8
Iran, Islamic Rep.	1394	46.0	23.1	7.9	5.9	14.9	2.2	23.1	0.0	0.0	2.2	12.5	31.0
Ireland	1163	24.2	21.6	27.9	7.7	18.1	0.6	21.6	0.1	0.0	0.5	12.7	31.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1918	3.7	87.3	3.5	2.5	2.9	0.1	87.3	0.0	0.0	0.1	85.9	88.6
Korea	1098	6.8	55.9	32.7	3.1	1.3	0.1	55.9	0.0	0.0	0.1	47.2	62.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	968	28.6	30.2	28.0	2.7	4.2	6.4	30.2	0.0	0.1	6.2	18.1	43.7
Lithuania	954	19.9	51.2	13.2	2.3	6.1	7.4	51.2	0.3	0.3	6.8	40.1	61.8
Netherlands	790	9.4	44.6	23.9	4.4	16.8	0.9	44.6	0.0	0.0	0.9	32.0	57.2
New Zealand	1203	20.1	30.0	32.4	5.6	11.8	0.2	30.0	0.0	0.0	0.2	21.6	36.9
Norway	930	14.8	48.8	23.3	2.4	9.3	1.4	48.8	0.0	0.2	1.2	38.0	60.5
Philippines	2191	31.9	19.6	26.2	3.3	18.3	0.5	19.6	0.0	0.0	0.5	19.0	20.3
Portugal	1250	28.4	23.5	19.9	4.1	21.1	3.1	23.5	0.0	0.3	2.8	14.0	33.8
Romania	1398	29.9	37.1	21.4	1.2	5.9	4.5	37.1	1.3	0.0	3.1	33.0	41.9
Russian Federation	1528	23.6	52.8	6.4	1.3	7.9	8.1	52.8	0.1	0.6	7.3	45.6	59.8
Scotland	1078	26.6	20.0	27.7	7.3	17.7	0.6	20.0	0.0	0.2	0.4	13.8	26.4
Singapore	1341	20.1	47.3	18.3	3.9	10.1	0.2	47.3	0.0	0.0	0.2	37.7	57.0
Slovak Republic	1387	26.7	50.9	10.5	1.6	7.5	2.8	50.9	0.1	0.2	2.5	48.6	53.4
Slovenia	1082	13.7	42.8	33.1	1.9	7.2	1.4	42.8	0.1	0.0	1.3	33.2	53.1
South Africa	2015	23.8	17.5	23.7	4.7	25.4	4.9	17.5	0.2	0.4	4.3	16.4	19.1
Spain	1414	20.9	36.1	26.6	5.3	9.9	1.2	36.1	0.0	0.3	0.9	25.6	46.9
Sweden	1048	11.2	47.8	26.2	2.6	11.6	0.6	47.8	0.1	0.1	0.4	30.0	65.2
Switzerland	1522	15.0	32.8	34.3	3.0	13.1	1.8	32.8	0.3	0.0	1.6	24.4	40.5
Thailand	2194	19.2	43.2	33.1	0.7	3.6	0.2	43.2	0.0	0.0	0.2	42.2	45.2
United States	1435	22.5	29.8	31.3	5.1	10.9	0.4	29.8	0.0	0.0	0.4	21.4	38.8
INTERNATIONAL AVG	.	20.1	37.1	25.5	3.8	11.1	2.4	37.1	0.1	0.2	2.1	28.9	45.2

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: D02 KEY: C  
 Identify substance from magnetic properties. (Physics)  
 Difficulty: 434

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2089	3.8	5.9	78.2	11.5	0.7	78.2	0.0	0.1	0.5	79.2	77.0
Austria	1124	2.7	6.6	81.2	7.9	1.5	81.2	0.0	0.1	1.4	78.9	84.3
Belgium (Fl)	1039	4.5	8.5	73.8	11.6	1.6	73.8	0.0	0.0	1.6	70.1	77.3
Belgium (Fr)	847	4.8	9.0	63.3	16.4	6.5	63.3	0.0	0.2	6.3	61.3	65.5
Bulgaria	795	2.0	7.0	85.8	3.5	1.7	85.8	0.0	0.0	1.7	84.6	87.2
Canada	3084	5.2	7.6	72.5	14.1	0.6	72.5	0.0	0.0	0.5	70.2	74.8
Colombia	990	5.6	15.3	54.1	18.4	6.6	54.1	0.4	2.1	4.0	49.0	58.9
Cyprus	1048	4.9	19.4	57.7	15.3	2.8	57.7	0.3	0.3	2.2	55.2	60.1
Czech Republic	1262	1.6	3.8	90.3	3.2	1.0	90.3	0.0	0.1	0.9	89.9	90.7
Denmark	694	6.7	16.4	50.2	20.8	5.9	50.2	0.3	0.9	4.7	46.9	52.9
England	677	3.2	6.0	81.1	9.7	0.1	81.1	0.0	0.0	0.1	80.0	82.1
France	1109	5.2	13.8	57.7	19.6	3.7	57.7	0.1	0.1	3.4	52.9	62.4
Germany	1076	4.0	9.7	76.1	7.4	2.9	76.1	0.2	0.1	2.6	73.3	78.5
Greece	1458	6.0	20.7	53.6	17.4	2.4	53.6	0.2	0.1	2.0	51.0	55.9
Hong Kong	1274	6.9	8.0	73.8	10.7	0.5	73.8	0.0	0.0	0.5	71.9	75.6
Hungary	1152	2.4	5.0	87.2	3.2	2.2	87.2	0.0	0.7	1.4	85.2	89.2
Iceland	738	7.3	22.4	51.4	17.4	1.5	51.4	0.0	0.1	1.5	47.2	55.3
Iran, Islamic Rep.	1394	4.8	25.3	49.0	19.8	1.1	49.0	0.2	0.1	0.8	49.7	48.4
Ireland	1163	4.6	8.3	74.2	12.2	0.7	74.2	0.2	0.0	0.5	69.4	79.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1918	5.9	4.7	84.1	4.9	0.5	84.1	0.1	0.0	0.4	83.9	84.3
Korea	1098	3.9	6.0	86.5	3.5	0.1	86.5	0.0	0.0	0.1	85.1	87.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	967	7.6	19.5	46.6	19.1	7.2	46.6	0.0	0.1	7.1	43.0	50.3
Lithuania	955	5.1	10.4	60.3	10.9	13.4	60.3	0.0	0.3	13.1	51.7	68.5
Netherlands	790	5.5	12.6	71.1	9.9	0.9	71.1	0.1	0.0	0.8	64.7	77.8
New Zealand	1203	7.3	12.8	61.8	18.0	0.1	61.8	0.0	0.0	0.1	58.0	64.9
Norway	930	8.6	18.0	60.8	11.3	1.2	60.8	0.0	0.2	1.0	57.8	64.2
Philippines	2191	2.3	27.3	27.9	41.9	0.6	27.9	0.0	0.1	0.5	26.0	30.2
Portugal	1251	4.0	15.2	50.2	27.8	2.8	50.2	0.0	0.4	2.4	45.4	55.4
Romania	1399	3.1	7.3	75.5	11.4	2.7	75.5	0.5	0.0	2.2	72.1	79.5
Russian Federation	1519	7.6	5.6	72.2	6.4	8.1	72.2	1.2	0.7	6.3	69.0	75.4
Scotland	1078	3.7	8.1	76.2	11.6	0.4	76.2	0.0	0.2	0.3	73.8	78.8
Singapore	1341	2.9	4.0	87.4	5.4	0.3	87.4	0.0	0.1	0.2	86.7	88.0
Slovak Republic	1387	2.1	5.0	86.7	5.2	1.0	86.7	0.0	0.2	0.8	85.6	87.9
Slovenia	1082	3.6	9.4	78.6	7.1	1.3	78.6	0.2	0.0	1.1	75.8	81.9
South Africa	2015	5.3	17.6	47.0	25.9	4.4	47.0	0.2	0.6	3.6	44.1	50.7
Spain	1414	4.5	13.3	68.9	11.7	1.6	68.9	0.0	0.3	1.3	65.8	72.1
Sweden	1048	8.3	11.3	70.7	9.1	0.6	70.7	0.0	0.3	0.3	66.2	75.3
Switzerland	1522	8.1	13.5	63.3	13.4	1.7	63.3	0.1	0.0	1.6	59.2	67.1
Thailand	2194	3.1	8.6	64.1	23.5	0.6	64.1	0.0	0.0	0.6	63.5	64.9
United States	1435	3.8	8.2	73.1	14.4	0.5	73.1	0.0	0.0	0.4	70.2	76.2
INTERNATIONAL AVG	.	4.8	11.4	68.1	13.3	2.3	68.1	0.1	0.2	2.0	65.3	70.9

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: D03 KEY: B  
 Identify direction of river flow on contour map. (Earth Science)  
 Difficulty: 661

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2089	13.3	39.1	31.5	6.7	8.7	0.6	39.1	0.0	0.1	0.5	34.9	44.0
Austria	1124	17.5	38.8	25.3	8.8	8.8	0.9	38.8	0.0	0.1	0.7	33.4	45.1
Belgium (Fl)	1039	13.6	48.6	23.9	8.8	4.6	0.5	48.6	0.0	0.0	0.5	41.2	55.4
Belgium (Fr)	847	18.6	41.0	20.3	9.2	8.0	2.9	41.0	0.0	0.2	2.7	35.6	47.6
Bulgaria	795	11.5	49.7	16.8	7.4	11.3	3.3	49.7	0.5	0.0	2.7	47.9	52.4
Canada	3084	14.6	38.3	28.8	6.4	11.0	0.8	38.3	0.0	0.0	0.7	33.5	43.2
Colombia	990	18.2	13.2	18.4	9.8	32.8	7.7	13.2	0.2	2.2	5.3	13.2	12.8
Cyprus	1048	22.1	17.3	33.5	8.3	15.7	3.1	17.3	0.1	0.3	2.7	14.4	20.2
Czech Republic	1265	16.1	36.2	24.7	11.1	9.4	2.5	36.2	0.2	0.2	2.1	28.8	43.5
Denmark	694	12.5	32.6	26.7	7.0	14.1	7.0	32.6	0.2	0.9	6.0	26.9	38.9
England	677	10.1	42.6	34.3	5.3	7.6	0.2	42.6	0.0	0.0	0.2	34.9	49.5
France	1109	17.9	31.4	20.9	12.6	14.5	2.8	31.4	0.5	0.1	2.2	25.8	37.8
Germany	1076	12.6	39.1	25.1	9.3	9.0	5.0	39.1	0.6	0.1	4.3	34.4	44.3
Greece	1458	20.5	18.9	24.0	7.6	25.0	4.1	18.9	0.5	0.1	3.5	17.6	20.0
Hong Kong	1274	7.6	56.3	22.9	4.3	8.0	0.8	56.3	0.0	0.0	0.8	54.5	58.0
Hungary	1152	14.7	36.1	23.1	11.2	12.2	2.7	36.1	0.0	0.9	1.8	33.2	39.1
Iceland	738	17.6	32.6	28.0	9.9	10.2	1.7	32.6	0.1	0.1	1.6	30.4	34.5
Iran, Islamic Rep.	1393	19.1	22.8	31.3	11.9	12.7	2.2	22.8	1.3	0.1	0.8	21.2	23.8
Ireland	1163	16.8	30.9	31.2	10.3	9.9	0.9	30.9	0.4	0.0	0.5	24.6	38.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1918	14.1	47.5	22.1	10.6	5.5	0.2	47.5	0.0	0.0	0.1	42.3	52.6
Korea	1098	15.4	44.0	24.2	12.8	3.4	0.1	44.0	0.0	0.0	0.1	34.6	50.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	974	12.9	28.6	23.0	11.9	18.9	4.7	28.6	0.0	0.3	4.4	26.7	30.4
Lithuania	956	9.5	32.0	24.6	8.9	17.0	8.0	32.0	0.0	0.3	7.6	29.1	34.8
Netherlands	790	15.9	32.7	33.1	8.9	9.0	0.4	32.7	0.0	0.0	0.4	26.8	38.9
New Zealand	1203	18.5	29.0	32.8	9.7	9.9	0.2	29.0	0.1	0.0	0.1	23.3	33.7
Norway	929	15.6	37.1	22.0	10.3	12.0	3.0	37.1	0.0	0.2	2.8	30.9	43.9
Philippines	2191	36.4	16.4	26.4	10.3	10.3	0.3	16.4	0.0	0.1	0.1	16.1	16.7
Portugal	1251	18.3	22.5	28.0	11.4	17.3	2.5	22.5	0.0	0.5	2.0	20.5	24.6
Romania	1399	26.6	31.3	16.5	7.3	15.0	3.3	31.3	0.9	0.0	2.5	29.1	34.0
Russian Federation	1557	10.7	42.4	20.6	9.0	12.8	4.5	42.4	0.2	0.7	3.6	38.0	46.8
Scotland	1078	12.8	33.6	36.6	6.8	9.7	0.6	33.6	0.1	0.2	0.3	30.4	36.9
Singapore	1341	16.0	35.2	24.5	7.3	16.5	0.5	35.2	0.0	0.1	0.5	27.8	42.5
Slovak Republic	1381	19.4	37.4	22.7	7.6	10.6	2.2	37.4	0.1	0.2	1.8	32.3	43.0
Slovenia	1082	12.9	53.1	18.0	10.8	4.4	0.6	53.1	0.0	0.0	0.6	50.5	56.0
South Africa	2015	21.5	21.8	28.1	12.1	13.3	3.2	21.8	0.5	0.7	2.0	20.8	23.1
Spain	1414	20.4	18.1	30.2	12.2	16.9	2.2	18.1	0.0	0.3	1.8	15.5	20.8
Sweden	1048	13.0	37.1	30.7	9.0	8.9	1.2	37.1	0.1	0.3	0.8	31.4	42.6
Switzerland	1522	16.2	40.3	25.6	10.7	5.6	1.5	40.3	0.4	0.0	1.1	34.9	45.3
Thailand	2194	15.3	28.6	24.7	14.4	16.3	0.7	28.6	0.0	0.0	0.7	25.9	32.4
United States	1435	14.4	38.5	30.8	5.8	10.1	0.3	38.5	0.0	0.0	0.3	33.3	44.0
INTERNATIONAL AVG	.	16.3	34.3	25.9	9.3	11.9	2.2	34.3	0.2	0.2	1.8	30.2	38.6

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: D04 KEY: C

Relate physical event to its sequence of energy changes. (Physics)

Difficulty: 553

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2089	10.6	11.7	61.6	14.0	2.1	61.6	0.0	0.1	2.0	61.5	61.7
Austria	1124	14.1	8.0	51.7	22.8	3.4	51.7	0.2	0.1	3.1	46.6	56.9
Belgium (Fl)	1039	10.2	13.2	62.6	11.3	2.8	62.6	0.2	0.0	2.6	60.0	65.1
Belgium (Fr)	847	8.4	13.2	36.9	24.3	17.2	36.9	0.2	0.3	16.7	33.8	39.8
Bulgaria	795	9.7	18.1	45.5	17.3	9.5	45.5	0.3	0.0	9.2	45.9	44.3
Canada	3084	11.4	11.7	59.0	16.0	1.9	59.0	0.2	0.1	1.6	57.1	60.4
Colombia	990	11.6	11.5	42.6	26.3	7.9	42.6	0.2	2.7	5.0	40.4	44.5
Cyprus	1048	7.0	8.8	59.5	19.7	5.0	59.5	0.5	0.3	4.3	61.9	57.4
Czech Republic	1266	11.2	20.3	43.3	20.2	5.0	43.3	0.1	0.4	4.5	34.9	51.5
Denmark	694	8.5	12.3	43.3	17.5	18.4	43.3	0.3	1.1	17.1	41.7	44.9
England	677	7.3	11.9	70.8	9.1	1.0	70.8	0.0	0.0	1.0	66.8	74.4
France	1109	10.3	13.1	42.4	26.9	7.3	42.4	0.4	0.1	6.7	37.8	46.1
Germany	1077	12.3	10.1	45.2	22.1	10.2	45.2	1.1	0.1	9.1	39.4	51.0
Greece	1458	7.5	7.7	61.5	17.4	5.9	61.5	0.5	0.1	5.3	63.1	60.1
Hong Kong	1273	7.2	6.5	70.7	15.1	0.4	70.7	0.0	0.0	0.4	68.6	72.3
Hungary	1152	6.2	10.3	63.6	15.9	3.9	63.6	0.0	0.9	3.0	55.7	71.7
Iceland	738	14.6	7.4	54.6	20.5	2.9	54.6	0.1	0.1	2.6	49.9	58.8
Iran, Islamic Rep.	1393	8.6	15.8	57.5	14.3	3.8	57.5	1.3	0.1	2.4	56.9	58.0
Ireland	1163	9.3	15.1	60.6	13.5	1.6	60.6	0.4	0.0	1.2	56.5	65.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1918	9.6	8.5	58.2	23.2	0.5	58.2	0.1	0.0	0.4	57.2	59.3
Korea	1098	10.8	20.6	50.3	18.2	0.2	50.3	0.0	0.0	0.2	46.4	53.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	973	12.2	12.2	39.5	23.6	12.6	39.5	0.0	0.3	12.3	35.9	43.2
Lithuania	956	7.7	12.4	33.3	18.5	28.2	33.3	0.3	0.6	27.3	32.2	34.3
Netherlands	790	12.7	11.3	55.7	18.8	1.5	55.7	0.0	0.0	1.5	58.2	53.3
New Zealand	1203	11.7	12.1	58.9	16.3	0.9	58.9	0.4	0.0	0.5	57.4	60.1
Norway	929	11.7	13.3	50.4	20.0	4.6	50.4	0.0	0.4	4.2	47.0	54.0
Philippines	2190	15.5	19.8	32.5	31.5	0.7	32.5	0.0	0.1	0.6	31.5	33.5
Portugal	1251	6.5	12.5	43.1	30.5	7.3	43.1	0.0	0.5	6.8	42.8	43.4
Romania	1391	9.0	15.8	47.5	16.5	11.2	47.5	3.7	0.1	7.4	44.3	51.4
Russian Federation	1557	8.4	10.0	46.0	19.1	16.5	46.0	0.4	0.7	15.3	40.4	51.6
Scotland	1078	9.1	14.4	66.6	8.7	1.2	66.6	0.4	0.2	0.6	65.3	68.1
Singapore	1341	5.4	10.8	74.5	8.8	0.6	74.5	0.0	0.1	0.5	73.3	75.7
Slovak Republic	1379	15.5	12.6	48.1	16.8	7.0	48.1	0.7	0.3	6.0	43.9	52.6
Slovenia	1081	13.2	24.2	50.1	10.4	2.2	50.1	0.2	0.0	2.0	45.3	55.5
South Africa	2015	14.3	22.5	24.3	34.4	4.6	24.3	0.6	0.8	3.1	21.2	28.0
Spain	1414	11.8	12.6	47.4	23.8	4.3	47.4	0.0	0.3	4.0	44.7	50.3
Sweden	1047	18.5	15.0	35.3	28.8	2.4	35.3	0.3	0.7	1.4	31.2	39.7
Switzerland	1522	11.3	9.7	44.1	28.5	6.4	44.1	0.7	0.2	5.5	37.4	50.4
Thailand	2194	8.7	5.0	68.1	17.4	0.8	68.1	0.0	0.0	0.8	67.3	69.7
United States	1435	13.3	16.3	54.6	14.9	0.9	54.6	0.0	0.0	0.8	52.8	56.5
INTERNATIONAL AVG	.	10.6	13.0	51.5	19.3	5.6	51.5	0.3	0.3	5.0	48.9	54.2

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: D05 KEY: C  
 Identify system carrying sensory messages to the brain. (Life Science)  
 Difficulty: 483

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2089	21.6	4.4	62.0	10.7	1.4	62.0	0.0	0.1	1.3	57.4	67.2
Austria	1124	12.3	7.9	70.8	7.3	1.6	70.8	0.1	0.1	1.4	70.4	71.6
Belgium (Fl)	1039	10.8	1.8	75.8	10.8	0.9	75.8	0.0	0.0	0.9	73.4	78.1
Belgium (Fr)	847	18.9	6.8	60.8	6.3	7.2	60.8	0.2	0.4	6.6	59.2	63.3
Bulgaria	795	10.0	4.8	75.2	6.3	3.7	75.2	0.3	0.0	3.4	74.3	75.9
Canada	3084	19.6	7.7	61.7	9.8	1.3	61.7	0.0	0.1	1.2	57.3	66.2
Colombia	990	22.8	13.1	51.9	5.4	6.9	51.9	0.2	3.3	3.3	47.7	55.3
Cyprus	1048	30.6	13.1	40.8	11.9	3.6	40.8	0.3	0.3	3.0	38.7	43.1
Czech Republic	1266	5.8	3.0	88.4	2.0	0.9	88.4	0.0	0.5	0.3	87.4	89.3
Denmark	694	13.3	10.0	55.2	11.8	9.7	55.2	0.1	1.4	8.1	48.4	62.3
England	677	16.5	6.6	68.0	8.6	0.3	68.0	0.0	0.0	0.3	65.4	70.4
France	1109	13.0	11.2	59.9	12.6	3.4	59.9	0.2	0.2	3.0	55.5	64.4
Germany	1077	16.0	5.1	67.1	6.4	5.4	67.1	0.7	0.2	4.6	67.1	66.8
Greece	1458	19.4	5.7	59.3	13.9	1.6	59.3	0.1	0.1	1.3	58.9	59.7
Hong Kong	1273	21.5	5.3	47.8	24.9	0.5	47.8	0.0	0.1	0.4	43.8	50.9
Hungary	1152	13.4	8.8	65.4	7.9	4.6	65.4	0.0	1.2	3.4	65.0	65.8
Iceland	738	26.3	4.0	64.0	4.4	1.4	64.0	0.2	0.2	1.0	62.0	65.7
Iran, Islamic Rep.	1393	11.6	3.6	77.9	5.5	1.4	77.9	0.0	0.1	1.3	74.4	80.6
Ireland	1163	17.7	10.3	62.1	9.0	0.9	62.1	0.0	0.0	0.9	58.4	66.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1918	9.0	6.8	79.9	3.9	0.4	79.9	0.0	0.0	0.4	79.8	80.0
Korea	1098	15.7	4.5	72.7	7.1	0.0	72.7	0.0	0.0	0.0	69.9	74.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	973	8.3	5.4	70.6	9.8	6.1	70.6	0.0	0.4	5.6	68.9	72.2
Lithuania	956	11.2	5.5	50.6	11.8	20.9	50.6	0.0	0.9	20.0	48.4	52.7
Netherlands	790	7.4	4.4	78.6	9.1	0.5	78.6	0.0	0.0	0.5	75.3	81.8
New Zealand	1203	19.8	9.0	59.1	11.4	0.8	59.1	0.2	0.0	0.5	55.3	62.1
Norway	929	13.2	13.1	54.0	16.5	3.3	54.0	0.0	0.4	2.9	54.2	53.7
Philippines	2190	26.1	8.4	51.1	13.7	0.7	51.1	0.0	0.1	0.6	54.6	47.2
Portugal	1251	34.2	14.6	36.9	11.2	3.2	36.9	0.0	0.5	2.7	31.0	43.2
Romania	1395	18.1	3.8	65.3	7.9	4.9	65.3	1.2	0.3	3.4	63.2	67.9
Russian Federation	1557	9.6	8.6	68.4	5.2	8.2	68.4	0.1	0.9	7.2	65.6	71.3
Scotland	1078	20.3	11.9	55.7	10.4	1.6	55.7	0.1	0.2	1.3	53.5	58.2
Singapore	1341	10.9	7.1	74.8	6.2	1.0	74.8	0.0	0.1	1.0	75.4	74.1
Slovak Republic	1379	12.9	3.5	78.9	2.8	2.0	78.9	0.1	0.3	1.7	75.7	82.3
Slovenia	1082	10.3	3.9	78.3	6.0	1.5	78.3	0.2	0.0	1.3	77.5	79.3
South Africa	2015	18.6	11.0	34.9	30.7	4.8	34.9	0.1	0.8	3.8	33.7	36.6
Spain	1414	28.7	8.3	56.3	5.3	1.5	56.3	0.0	0.4	1.0	51.9	60.8
Sweden	1048	20.1	10.4	55.0	13.3	1.2	55.0	0.1	0.7	0.4	51.2	58.9
Switzerland	1522	15.4	18.5	55.9	7.1	3.1	55.9	0.0	0.3	2.8	53.0	58.5
Thailand	2194	6.1	3.8	86.1	3.8	0.2	86.1	0.0	0.0	0.2	87.3	84.4
United States	1435	17.3	4.4	66.9	10.5	0.8	66.9	0.0	0.0	0.8	64.4	69.5
INTERNATIONAL AVG	.	16.4	7.5	63.6	9.5	3.1	63.6	0.1	0.4	2.6	61.4	65.8

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: D06 KEY: A  
 Relate plant part to seed development. (Life Science)  
 Difficulty: 439

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2089	64.5	3.2	23.2	8.3	0.8	64.5	0.0	0.1	0.7	61.5	68.0
Austria	1124	85.8	0.9	8.6	3.7	1.1	85.8	0.0	0.1	1.0	86.1	86.4
Belgium (Fl)	1039	84.5	1.2	9.3	4.3	0.7	84.5	0.0	0.0	0.7	80.8	88.0
Belgium (Fr)	847	60.6	2.9	27.4	6.4	2.7	60.6	0.0	0.4	2.3	59.5	61.6
Bulgaria	795	76.1	1.2	16.3	5.1	1.3	76.1	0.2	0.0	1.1	75.9	76.3
Canada	3084	57.0	3.0	30.2	8.6	1.2	57.0	0.0	0.1	1.1	56.4	57.9
Colombia	990	52.2	3.0	29.9	8.6	6.3	52.2	0.2	3.3	2.8	50.9	53.7
Cyprus	1048	61.6	2.3	11.5	22.4	2.3	61.6	0.1	0.3	1.9	63.8	59.6
Czech Republic	1266	93.7	0.9	3.5	0.9	0.9	93.7	0.1	0.5	0.3	93.8	93.7
Denmark	694	79.1	3.2	11.1	2.9	3.6	79.1	0.1	1.4	2.2	78.0	80.2
England	677	53.4	1.1	29.3	16.1	0.2	53.4	0.0	0.0	0.2	49.8	56.7
France	1109	66.0	4.0	21.0	7.8	1.2	66.0	0.2	0.2	0.7	64.3	67.7
Germany	1077	84.0	0.9	7.9	5.1	2.1	84.0	0.3	0.2	1.7	82.4	85.9
Greece	1458	37.2	5.1	22.9	33.0	1.8	37.2	0.4	0.1	1.3	38.5	36.1
Hong Kong	1273	75.1	2.1	14.1	7.9	0.9	75.1	0.0	0.1	0.8	74.5	75.4
Hungary	1152	81.3	0.8	11.6	3.0	3.3	81.3	0.0	1.4	1.9	80.8	81.9
Iceland	738	53.6	4.2	27.3	13.6	1.2	53.6	0.0	0.2	1.0	56.3	51.1
Iran, Islamic Rep.	1393	67.2	2.3	20.8	8.8	0.8	67.2	0.0	0.1	0.7	60.0	72.8
Ireland	1163	41.2	4.6	42.3	11.2	0.7	41.2	0.1	0.0	0.6	37.1	45.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1918	79.6	3.2	5.7	11.2	0.1	79.6	0.0	0.0	0.1	81.5	77.9
Korea	1098	75.2	5.6	11.5	7.7	0.0	75.2	0.0	0.0	0.0	76.3	74.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	973	90.7	0.6	3.9	1.9	2.8	90.7	0.0	0.5	2.2	91.7	89.6
Lithuania	955	88.6	0.5	6.0	2.5	2.4	88.6	0.0	0.9	1.5	89.4	87.8
Netherlands	790	71.7	4.3	13.4	10.5	0.2	71.7	0.0	0.0	0.2	66.1	77.2
New Zealand	1203	57.2	4.0	29.4	8.5	0.9	57.2	0.0	0.0	0.9	51.6	61.8
Norway	929	61.2	5.0	23.4	8.2	2.2	61.2	0.0	0.4	1.8	57.1	65.7
Philippines	2190	37.7	6.1	44.0	11.1	1.2	37.7	0.2	0.1	0.9	37.7	37.7
Portugal	1251	52.9	2.8	33.0	9.3	2.0	52.9	0.0	0.6	1.4	49.1	56.9
Romania	1394	80.4	1.1	12.1	3.9	2.5	80.4	0.8	0.3	1.4	79.8	81.2
Russian Federation	1557	89.4	0.3	6.2	1.9	2.2	89.4	0.4	0.9	0.9	90.0	88.9
Scotland	1078	41.7	2.8	41.2	12.6	1.7	41.7	0.2	0.2	1.3	39.6	44.0
Singapore	1341	87.5	1.4	8.4	2.3	0.5	87.5	0.0	0.1	0.4	88.0	86.9
Slovak Republic	1379	93.7	0.3	3.2	2.0	0.8	93.7	0.1	0.3	0.5	94.7	92.7
Slovenia	1082	83.4	0.9	11.9	3.0	0.8	83.4	0.3	0.0	0.5	82.3	84.4
South Africa	2015	37.5	8.7	34.7	15.8	3.4	37.5	0.5	0.8	2.0	33.9	42.1
Spain	1414	52.1	2.1	35.7	9.2	0.9	52.1	0.0	0.5	0.5	49.4	54.9
Sweden	1048	87.1	2.0	7.9	2.2	0.8	87.1	0.0	0.7	0.1	88.6	85.8
Switzerland	1522	80.9	0.9	12.0	5.5	0.7	80.9	0.2	0.3	0.2	80.4	81.3
Thailand	2194	82.8	1.1	12.6	3.1	0.4	82.8	0.0	0.0	0.4	83.1	82.3
United States	1435	55.0	5.3	31.7	7.0	1.1	55.0	0.0	0.0	1.0	52.5	57.7
INTERNATIONAL AVG	.	69.0	2.6	18.9	7.9	1.5	69.0	0.1	0.4	1.0	67.8	70.3

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent



Item: E07 KEY: B  
 Identify particles found in the nucleus of atoms. (Physics)  
 Difficulty: 635

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2076	15.0	31.1	21.9	28.6	3.3	31.1	0.0	0.3	3.0	31.8	30.5
Austria	1137	10.2	49.3	24.7	14.1	1.6	49.3	0.0	0.2	1.4	48.0	51.0
Belgium (Fl)	1064	7.5	26.2	20.6	38.9	6.8	26.2	0.0	0.0	6.8	27.1	25.3
Belgium (Fr)	861	9.7	23.8	19.3	16.9	30.2	23.8	0.0	0.8	29.5	20.1	28.8
Bulgaria	702	4.5	44.4	41.5	5.9	3.8	44.4	0.0	0.0	3.8	43.5	44.9
Canada	3063	14.3	34.9	21.2	27.0	2.5	34.9	0.0	0.2	2.3	34.4	35.5
Colombia	988	12.0	37.9	21.9	20.5	7.8	37.9	0.1	3.8	3.9	38.8	37.1
Cyprus	1147	7.9	45.8	31.6	9.1	5.6	45.8	0.0	0.5	5.1	46.3	45.2
Czech Republic	1255	4.4	63.6	25.0	5.1	1.9	63.6	0.2	0.6	1.1	65.8	61.2
Denmark	822	11.0	28.1	18.8	18.0	24.2	28.1	0.1	0.6	23.4	24.5	31.2
England	656	20.0	38.1	18.3	22.4	1.3	38.1	0.0	0.0	1.3	35.8	39.9
France	1124	9.9	23.9	21.4	25.4	19.4	23.9	0.2	0.2	19.0	22.8	25.8
Germany	1094	13.0	22.2	25.8	20.2	18.8	22.2	0.7	0.7	17.4	21.2	23.3
Greece	1471	3.9	32.8	49.7	9.7	3.9	32.8	0.1	0.8	3.0	29.2	36.4
Hong Kong	1274	7.7	36.9	35.9	18.8	0.8	36.9	0.0	0.1	0.7	33.6	39.7
Hungary	1156	2.2	52.6	36.8	5.1	3.4	52.6	0.0	1.4	2.0	50.5	54.8
Iceland	733	6.7	31.1	42.9	15.6	3.7	31.1	0.2	0.5	3.0	26.1	35.5
Iran, Islamic Rep.	1395	9.2	18.1	59.7	10.3	2.7	18.1	0.0	0.3	2.5	13.6	21.6
Ireland	1149	24.7	37.0	16.4	20.0	1.9	37.0	0.1	0.0	1.8	36.5	37.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1926	6.1	28.3	36.0	28.5	1.1	28.3	0.0	0.0	1.1	25.7	30.6
Korea	1107	8.4	54.8	21.0	15.3	0.5	54.8	0.0	0.0	0.5	50.4	58.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	952	10.6	25.3	25.3	19.9	19.0	25.3	0.0	1.1	17.8	23.8	27.0
Lithuania	955	8.2	19.4	16.7	12.6	43.1	19.4	0.0	2.3	40.8	16.5	22.4
Netherlands	791	14.5	27.6	23.2	29.3	5.3	27.6	0.1	0.1	5.0	25.9	29.4
New Zealand	1179	14.4	29.9	21.7	31.6	2.4	29.9	0.0	0.5	1.9	30.9	29.0
Norway	921	9.3	27.6	23.2	35.4	4.6	27.6	0.0	0.8	3.8	25.7	29.2
Philippines	2186	9.5	37.5	26.7	26.1	0.2	37.5	0.0	0.1	0.0	36.9	38.2
Portugal	1241	18.4	27.0	21.9	17.6	15.1	27.0	0.0	0.9	14.2	27.2	26.9
Romania	1383	9.7	56.4	16.4	12.1	5.4	56.4	1.0	0.8	3.6	59.7	52.5
Russian Federation	1562	8.9	34.8	16.5	15.1	24.7	34.8	0.2	1.2	23.3	31.7	38.0
Scotland	1064	24.0	36.9	14.5	21.2	3.4	36.9	0.1	0.1	3.2	37.1	36.6
Singapore	1392	11.5	40.7	18.6	27.2	2.0	40.7	0.0	0.0	2.0	40.0	41.4
Slovak Republic	1356	3.6	67.3	23.5	4.2	1.4	67.3	0.1	0.6	0.7	68.5	66.0
Slovenia	1072	5.0	64.9	22.5	6.6	1.0	64.9	0.4	0.0	0.6	69.4	59.9
South Africa	2059	23.7	25.4	22.6	23.2	5.1	25.4	0.4	0.9	3.7	24.1	26.6
Spain	1425	9.8	47.4	23.2	16.8	2.8	47.4	0.0	0.7	2.1	48.0	46.9
Sweden	1055	7.7	29.5	28.2	31.9	2.6	29.5	0.0	0.4	2.2	28.3	30.8
Switzerland	1529	11.3	30.2	26.6	25.0	6.8	30.2	0.1	0.7	6.0	25.1	34.8
Thailand	2235	7.7	25.7	24.4	41.1	1.1	25.7	0.0	0.1	0.9	23.8	28.6
United States	1454	9.5	47.1	23.4	18.8	1.2	47.1	0.0	0.4	0.9	48.4	45.7
INTERNATIONAL AVG	.	10.6	36.5	25.7	19.8	7.3	36.5	0.1	0.6	6.6	35.4	37.6

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: E08 KEY: C  
 Select correct statement of trait heredity from parents. (Life Science)  
 Difficulty: 391

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2076	11.0	3.1	69.3	14.4	2.2	69.3	0.0	0.3	1.9	73.8	64.7
Austria	1137	1.5	2.0	88.2	7.4	1.0	88.2	0.0	0.2	0.7	92.4	83.6
Belgium (Fl)	1064	2.4	0.4	90.1	6.8	0.4	90.1	0.0	0.0	0.4	90.9	89.3
Belgium (Fr)	861	5.4	1.4	61.2	28.2	3.8	61.2	0.5	0.9	2.5	62.5	59.2
Bulgaria	702	1.7	2.9	81.7	12.3	1.4	81.7	0.3	0.0	1.2	80.0	83.6
Canada	3063	5.6	1.6	80.9	10.5	1.5	80.9	0.0	0.2	1.2	82.9	79.2
Colombia	988	2.1	1.4	62.4	28.4	5.7	62.4	0.3	3.8	1.6	63.3	61.3
Cyprus	1147	2.4	3.1	78.8	14.5	1.4	78.8	0.0	0.6	0.8	82.8	75.2
Czech Republic	1255	2.0	0.8	82.0	13.6	1.6	82.0	0.1	0.7	0.8	86.4	77.4
Denmark	822	4.3	1.6	79.3	10.9	3.8	79.3	0.3	0.6	2.9	77.5	81.2
England	656	5.1	1.2	79.3	13.9	0.6	79.3	0.0	0.0	0.6	80.1	78.6
France	1124	2.9	1.3	72.9	20.5	2.4	72.9	0.9	0.2	1.3	77.3	68.0
Germany	1094	1.4	2.6	83.7	10.1	2.1	83.7	0.4	0.8	0.9	86.3	81.0
Greece	1471	3.9	1.9	73.8	18.8	1.6	73.8	0.1	0.8	0.7	78.2	69.4
Hong Kong	1274	6.3	1.9	65.9	25.2	0.7	65.9	0.0	0.1	0.6	71.0	61.5
Hungary	1156	1.7	0.8	84.6	10.4	2.4	84.6	0.0	1.5	1.0	87.1	82.0
Iceland	733	4.6	2.2	83.6	8.3	1.3	83.6	0.4	0.8	0.1	89.0	78.8
Iran, Islamic Rep.	1395	15.7	1.6	54.2	27.1	1.4	54.2	0.1	0.3	1.0	51.8	56.3
Ireland	1149	7.2	1.4	77.8	12.9	0.7	77.8	0.1	0.0	0.7	79.9	75.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1926	12.4	2.6	67.4	17.3	0.3	67.4	0.0	0.0	0.3	68.7	66.1
Korea	1107	7.5	2.1	68.1	22.1	0.2	68.1	0.0	0.1	0.2	66.9	68.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	953	2.4	1.2	78.4	15.4	2.6	78.4	0.0	1.3	1.3	85.0	71.0
Lithuania	955	5.5	1.1	68.0	20.6	4.9	68.0	0.0	2.3	2.6	76.7	59.0
Netherlands	791	3.5	1.5	87.7	6.5	0.9	87.7	0.0	0.1	0.8	88.8	86.5
New Zealand	1179	10.9	3.6	64.1	19.9	1.5	64.1	0.0	0.5	1.0	68.0	60.8
Norway	921	3.1	0.8	84.1	10.7	1.4	84.1	0.0	0.9	0.5	87.2	81.2
Philippines	2186	6.0	4.8	58.6	30.0	0.5	58.6	0.0	0.1	0.5	58.6	58.6
Portugal	1241	1.7	0.8	85.4	9.5	2.5	85.4	0.0	1.3	1.2	87.8	83.1
Romania	1383	3.9	1.7	76.7	13.8	3.9	76.7	1.6	1.0	1.3	78.1	75.0
Russian Federation	1563	4.6	1.7	78.8	12.0	2.9	78.8	0.2	1.4	1.3	81.9	75.6
Scotland	1064	7.6	2.8	72.3	15.7	1.6	72.3	0.2	0.1	1.3	74.1	71.0
Singapore	1392	11.7	2.4	63.0	22.0	0.7	63.0	0.0	0.0	0.7	64.5	61.6
Slovak Republic	1356	3.3	0.6	84.4	10.2	1.5	84.4	0.1	0.7	0.7	86.2	82.4
Slovenia	1072	3.9	0.6	81.9	12.5	1.0	81.9	0.5	0.0	0.6	83.8	80.1
South Africa	2059	16.0	11.8	46.5	21.2	4.6	46.5	0.5	1.7	2.4	48.0	44.7
Spain	1425	2.4	1.0	87.7	7.1	1.8	87.7	0.0	0.8	1.1	89.5	85.8
Sweden	1055	8.2	1.3	77.5	12.0	1.0	77.5	0.0	0.4	0.6	79.1	75.9
Switzerland	1529	1.7	3.5	80.7	12.5	1.6	80.7	0.1	0.7	0.8	84.1	77.5
Thailand	2235	4.4	1.4	69.0	24.7	0.5	69.0	0.0	0.1	0.4	70.5	66.6
United States	1454	4.3	2.0	86.2	6.0	1.5	86.2	0.0	0.4	1.1	89.2	83.2
INTERNATIONAL AVG	.	5.3	2.1	75.4	15.4	1.8	75.4	0.2	0.6	1.0	77.7	73.0

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: E09 KEY: D  
 Use table of time/temperature to determine point when weather changes. (Earth Science)  
 Difficulty: 403

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2076	1.4	4.4	2.4	86.2	4.0	1.6	86.2	0.0	0.3	1.3	89.1	83.3
Austria	1137	3.5	9.0	3.9	76.4	5.5	1.7	76.4	0.3	0.2	1.2	76.5	76.0
Belgium (Fl)	1064	1.4	2.1	2.1	90.0	3.8	0.7	90.0	0.0	0.0	0.7	91.0	88.9
Belgium (Fr)	861	0.7	1.4	1.5	90.7	3.7	2.0	90.7	0.2	0.9	1.0	90.2	91.2
Bulgaria	702	6.8	7.3	5.9	70.7	5.4	3.9	70.7	0.8	0.0	3.1	68.8	72.5
Canada	3063	2.6	14.2	2.9	72.9	5.8	1.7	72.9	0.0	0.2	1.5	72.2	73.6
Colombia	988	9.4	17.5	5.7	52.7	6.7	8.0	52.7	0.3	4.0	3.6	49.6	56.0
Cyprus	1147	5.3	8.8	6.7	68.8	7.7	2.6	68.8	0.2	0.6	1.9	72.1	65.8
Czech Republic	1254	1.7	4.2	2.1	83.7	6.2	2.2	83.7	0.5	0.8	0.9	84.4	82.9
Denmark	822	1.3	7.2	3.7	79.0	5.1	3.8	79.0	0.1	0.6	3.0	76.7	80.9
England	656	2.6	12.6	1.1	78.8	3.7	1.2	78.8	0.0	0.0	1.2	74.7	82.1
France	1124	0.7	1.7	2.7	91.5	2.3	1.1	91.5	0.5	0.2	0.4	92.6	90.5
Germany	1094	3.3	4.9	3.6	75.1	7.3	5.7	75.1	1.2	0.8	3.7	74.7	75.8
Greece	1470	5.7	12.4	4.7	66.2	7.9	3.1	66.2	0.8	0.8	1.5	67.4	65.0
Hong Kong	1275	2.0	4.0	4.7	84.7	4.0	0.6	84.7	0.0	0.1	0.5	84.5	84.8
Hungary	1156	1.2	3.1	2.2	87.0	2.8	3.6	87.0	0.0	1.5	2.1	87.7	86.3
Iceland	733	4.7	14.4	4.7	69.6	4.5	2.0	69.6	0.0	0.8	1.2	70.5	68.9
Iran, Islamic Rep.	1395	9.2	24.2	13.3	41.1	10.1	2.1	41.1	0.3	0.3	1.5	37.5	44.2
Ireland	1149	2.4	12.7	2.0	76.6	5.4	0.9	76.6	0.4	0.0	0.5	72.8	81.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1926	0.2	0.8	2.8	94.7	1.5	0.1	94.7	0.0	0.0	0.1	94.9	94.6
Korea	1107	3.5	10.4	4.0	77.1	4.7	0.3	77.1	0.0	0.2	0.2	76.3	77.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	956	5.6	15.1	6.2	57.5	8.5	7.1	57.5	0.0	1.3	5.8	56.2	58.7
Lithuania	955	5.2	21.5	3.3	49.4	8.9	11.7	49.4	1.5	2.3	7.9	51.4	47.3
Netherlands	791	1.7	3.0	2.1	86.8	5.7	0.6	86.8	0.0	0.1	0.5	87.3	86.5
New Zealand	1179	1.9	6.5	2.5	84.1	3.5	1.5	84.1	0.4	0.5	0.5	85.4	83.0
Norway	921	3.9	15.2	5.4	68.5	4.6	2.5	68.5	0.0	0.9	1.6	68.9	68.1
Philippines	2187	19.7	40.6	6.8	25.9	6.8	0.2	25.9	0.0	0.1	0.1	24.9	27.1
Portugal	1241	2.1	5.9	3.3	80.5	5.7	2.5	80.5	0.0	1.4	1.1	80.6	80.3
Romania	1382	8.5	7.8	7.2	63.2	8.8	4.4	63.2	0.8	1.0	2.6	63.5	62.8
Russian Federation	1561	4.3	19.0	3.6	54.5	14.5	4.1	54.5	0.1	1.5	2.4	54.7	54.4
Scotland	1064	2.4	12.9	2.3	73.6	7.4	1.4	73.6	0.3	0.2	0.9	69.7	77.5
Singapore	1392	2.4	6.2	2.3	83.8	4.9	0.3	83.8	0.0	0.0	0.3	83.1	84.5
Slovak Republic	1356	2.8	7.5	3.2	75.1	8.1	3.4	75.1	1.1	0.8	1.5	75.2	75.1
Slovenia	1072	3.0	5.4	3.6	81.2	5.8	1.1	81.2	0.2	0.0	0.8	79.2	83.4
South Africa	2059	24.3	22.1	10.1	25.5	13.9	4.1	25.5	1.1	1.7	1.3	24.4	27.5
Spain	1425	2.0	10.2	2.5	78.9	4.4	2.1	78.9	0.0	0.8	1.3	79.1	78.8
Sweden	1055	1.8	11.0	2.8	78.4	4.7	1.4	78.4	0.1	0.4	0.9	77.5	79.4
Switzerland	1529	2.1	2.5	2.6	86.1	5.0	1.8	86.1	0.3	0.7	0.8	86.8	85.5
Thailand	2235	1.9	4.2	3.6	85.3	4.6	0.3	85.3	0.0	0.1	0.1	85.6	85.0
United States	1454	2.6	9.9	4.1	73.7	8.3	1.5	73.7	0.1	0.4	1.0	73.7	73.7
INTERNATIONAL AVG	.	4.2	10.1	4.0	73.1	6.0	2.5	73.1	0.3	0.7	1.6	72.8	73.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: E10 KEY: A  
 Determine characteristics for classifying animals. (Life Science)  
 Difficulty: 563

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2076	64.8	7.0	14.2	12.2	1.9	64.8	0.0	0.3	1.5	66.9	62.7
Austria	1137	53.2	8.1	22.9	12.1	3.7	53.2	0.8	0.5	2.4	51.9	54.6
Belgium (Fl)	1064	54.1	8.2	17.7	19.1	0.9	54.1	0.1	0.1	0.7	52.4	55.7
Belgium (Fr)	861	58.6	3.8	16.0	17.6	3.9	58.6	0.7	1.0	2.2	54.9	64.0
Bulgaria	702	44.5	16.9	23.2	6.8	8.5	44.5	3.4	0.3	4.9	42.6	47.0
Canada	3063	56.7	7.8	19.7	13.3	2.6	56.7	0.3	0.2	2.1	56.0	57.1
Colombia	988	14.1	17.2	35.0	21.0	12.7	14.1	0.8	5.1	6.8	9.7	18.4
Cyprus	1147	46.1	12.0	24.1	14.8	2.9	46.1	0.3	0.6	2.0	43.8	48.4
Czech Republic	1254	54.4	4.0	21.0	17.7	3.0	54.4	0.9	0.9	1.2	54.0	54.8
Denmark	822	49.2	8.1	22.2	12.2	8.4	49.2	2.6	0.6	5.2	49.4	50.1
England	656	58.1	7.9	16.1	14.0	3.9	58.1	0.0	0.0	3.9	56.8	59.2
France	1124	56.1	5.9	20.0	14.2	3.8	56.1	2.3	0.2	1.3	54.5	56.6
Germany	1094	51.2	7.1	20.0	12.7	9.0	51.2	2.3	1.2	5.4	46.9	56.4
Greece	1471	53.9	8.1	19.5	14.5	3.9	53.9	0.9	0.9	2.0	54.5	53.5
Hong Kong	1275	66.1	10.8	14.5	7.8	0.8	66.1	0.0	0.1	0.7	65.7	66.5
Hungary	1156	41.0	4.8	21.1	26.7	6.4	41.0	0.0	1.9	4.5	38.7	43.5
Iceland	733	54.0	9.0	20.5	12.8	3.8	54.0	1.0	1.0	1.8	50.2	57.3
Iran, Islamic Rep.	1395	21.7	21.5	39.4	14.5	2.9	21.7	0.8	0.3	1.8	19.9	23.1
Ireland	1149	50.2	10.7	20.1	17.0	2.0	50.2	0.9	0.0	1.1	48.1	52.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1926	83.8	2.1	9.6	3.9	0.5	83.8	0.4	0.0	0.1	83.0	84.5
Korea	1107	74.6	2.8	12.7	9.7	0.2	74.6	0.0	0.2	0.1	72.2	76.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	956	45.8	10.6	24.4	10.9	8.3	45.8	0.0	1.5	6.8	45.6	45.7
Lithuania	955	29.9	13.3	30.5	12.4	14.0	29.9	3.0	2.5	8.6	28.9	30.9
Netherlands	791	65.5	2.5	13.1	17.9	1.0	65.5	0.4	0.1	0.5	63.1	68.0
New Zealand	1179	55.8	7.1	20.8	14.0	2.4	55.8	0.5	0.5	1.4	58.5	53.4
Norway	921	56.0	9.0	15.2	16.5	3.3	56.0	0.0	0.9	2.4	55.1	56.7
Philippines	2187	25.3	25.7	32.2	16.4	0.4	25.3	0.0	0.1	0.3	24.8	25.9
Portugal	1241	23.2	18.1	20.9	30.8	7.0	23.2	0.0	1.5	5.5	20.1	26.3
Romania	1380	33.1	16.6	28.5	11.6	10.2	33.1	4.2	1.4	4.6	32.4	33.8
Russian Federation	1562	42.0	10.4	30.9	7.7	9.0	42.0	2.6	2.1	4.3	42.3	41.7
Scotland	1064	55.5	9.8	15.5	16.3	2.9	55.5	1.4	0.3	1.3	53.6	57.6
Singapore	1392	59.9	5.1	20.3	13.9	0.8	59.9	0.0	0.0	0.8	57.9	61.9
Slovak Republic	1356	44.5	8.6	34.1	5.8	7.0	44.5	3.1	1.1	2.8	43.7	45.3
Slovenia	1072	50.1	6.2	28.7	12.2	2.8	50.1	1.8	0.0	1.1	44.9	55.9
South Africa	2059	20.8	24.3	24.4	23.9	6.6	20.8	1.2	1.8	3.6	19.6	22.8
Spain	1425	46.7	8.4	25.2	15.8	3.9	46.7	0.0	1.2	2.8	44.3	49.1
Sweden	1055	55.6	6.5	24.8	11.5	1.6	55.6	0.4	0.4	0.8	58.9	52.4
Switzerland	1529	59.1	7.9	19.3	10.9	2.8	59.1	0.9	0.7	1.2	58.0	60.1
Thailand	2235	63.7	5.2	24.0	6.8	0.4	63.7	0.0	0.1	0.2	62.4	65.5
United States	1454	54.3	8.1	21.7	14.0	1.9	54.3	0.0	0.4	1.5	55.7	52.8
INTERNATIONAL AVG	.	49.8	9.7	22.1	14.1	4.3	49.8	0.9	0.8	2.6	48.5	51.2

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: E11 KEY: D  
 Find shadow size from diagram of bulb/card/screen distances. (Physics)  
 Difficulty: 541

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2076	10.8	16.8	14.2	55.1	3.1	55.1	0.0	0.3	2.8	54.5	55.8
Austria	1137	7.4	14.2	14.7	59.6	4.1	59.6	0.0	0.5	3.5	58.5	60.7
Belgium (Fl)	1064	11.7	12.2	9.7	62.8	3.7	62.8	0.0	0.1	3.6	62.3	63.2
Belgium (Fr)	861	11.9	13.8	11.1	50.7	12.5	50.7	0.2	1.0	11.3	43.9	58.7
Bulgaria	702	6.7	12.9	12.9	53.3	14.3	53.3	0.5	0.3	13.4	53.8	52.7
Canada	3063	12.9	15.9	15.3	54.4	1.4	54.4	0.0	0.2	1.2	54.6	54.7
Colombia	988	11.4	16.7	12.2	48.4	11.4	48.4	0.2	6.5	4.6	44.9	52.0
Cyprus	1147	12.5	22.2	17.5	42.6	5.1	42.6	0.0	0.6	4.5	44.6	40.8
Czech Republic	1256	11.2	16.1	10.6	54.6	7.5	54.6	0.2	0.9	6.4	53.2	56.1
Denmark	822	9.2	14.2	16.1	44.5	16.0	44.5	0.2	1.0	14.8	41.8	48.4
England	656	9.7	15.4	16.0	57.7	1.1	57.7	0.0	0.0	1.1	55.5	59.5
France	1124	9.2	17.0	12.2	55.1	6.6	55.1	0.0	0.2	6.4	52.2	56.6
Germany	1094	6.4	10.7	10.9	55.9	16.1	55.9	0.2	1.4	14.5	52.8	59.8
Greece	1471	12.6	14.9	14.9	49.3	8.3	49.3	0.1	1.0	7.2	51.4	47.3
Hong Kong	1275	11.9	16.8	16.2	54.2	0.8	54.2	0.1	0.2	0.5	52.0	56.0
Hungary	1156	8.7	13.6	11.3	56.6	9.8	56.6	0.0	2.3	7.5	54.1	59.3
Iceland	733	10.7	18.8	20.7	44.9	4.9	44.9	0.0	1.0	3.9	43.1	46.4
Iran, Islamic Rep.	1385	12.9	14.2	15.3	54.9	2.6	54.9	0.0	0.7	2.0	53.0	56.6
Ireland	1149	10.4	14.8	15.8	56.7	2.3	56.7	0.3	0.0	2.0	55.2	58.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1926	13.8	11.3	10.9	63.5	0.6	63.5	0.0	0.1	0.5	62.0	64.9
Korea	1107	8.2	9.8	8.1	73.5	0.4	73.5	0.0	0.2	0.2	72.5	74.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	956	8.1	14.0	12.2	51.0	14.8	51.0	0.0	1.5	13.2	49.5	52.9
Lithuania	955	8.6	10.3	8.9	40.1	32.0	40.1	0.0	2.6	29.4	37.1	43.2
Netherlands	791	8.4	17.2	15.2	56.2	3.1	56.2	0.1	0.1	2.8	57.8	54.5
New Zealand	1177	11.0	16.0	18.5	52.6	1.9	52.6	0.1	0.5	1.2	50.7	54.2
Norway	921	11.3	16.1	15.4	51.5	5.7	51.5	0.0	1.0	4.7	46.4	56.2
Philippines	2186	7.5	17.7	13.3	61.1	0.4	61.1	0.0	0.1	0.3	61.8	60.4
Portugal	1240	9.1	16.9	15.2	52.1	6.7	52.1	0.0	1.7	5.1	51.8	52.4
Romania	1391	10.3	11.4	9.1	60.4	8.9	60.4	0.1	1.6	7.1	60.4	60.5
Russian Federation	1561	6.9	11.2	6.9	60.5	14.6	60.5	0.2	2.8	11.7	60.4	60.5
Scotland	1064	10.3	14.9	19.2	52.0	3.7	52.0	0.1	0.4	3.2	50.7	53.1
Singapore	1392	14.1	12.0	12.2	60.3	1.4	60.3	0.0	0.0	1.4	60.1	60.5
Slovak Republic	1354	13.8	11.6	9.0	58.3	7.3	58.3	0.2	1.2	5.9	56.3	60.4
Slovenia	1072	11.6	13.9	10.4	58.4	5.7	58.4	0.0	0.0	5.7	57.3	59.5
South Africa	2059	7.3	15.5	14.5	57.6	5.0	57.6	0.5	2.0	2.6	57.1	58.1
Spain	1425	10.6	15.9	14.6	53.6	5.3	53.6	0.0	1.3	4.0	53.7	53.5
Sweden	1055	10.1	9.4	10.6	67.8	2.1	67.8	0.0	0.4	1.7	66.1	69.6
Switzerland	1527	12.0	13.2	14.8	53.4	6.6	53.4	0.1	0.8	5.6	49.6	57.0
Thailand	2235	19.1	11.2	7.9	60.9	1.0	60.9	0.0	0.2	0.8	60.2	62.5
United States	1454	10.6	20.4	15.0	52.3	1.8	52.3	0.0	0.4	1.4	52.9	51.7
INTERNATIONAL AVG	.	10.5	14.5	13.2	55.2	6.5	55.2	0.1	0.9	5.5	53.9	56.6

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: E12 KEY: B  
 Identify type of stone involved in cave formation. (Earth Science)  
 Difficulty: 562

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2076	13.5	46.2	32.6	5.4	2.2	46.2	0.0	0.5	1.8	43.0	49.4
Austria	1137	10.9	67.1	15.8	4.3	1.8	67.1	0.4	0.8	0.7	68.6	65.2
Belgium (Fl)	1064	14.3	57.4	15.5	11.4	1.4	57.4	0.1	0.2	1.0	54.1	60.5
Belgium (Fr)	861	10.9	59.1	6.2	13.2	10.6	59.1	0.2	1.5	9.0	55.7	63.2
Bulgaria	702	11.8	66.9	8.8	5.0	7.4	66.9	0.8	1.3	5.2	64.4	69.1
Canada	3063	23.6	37.5	30.1	7.3	1.5	37.5	0.0	0.5	1.0	34.7	40.3
Colombia	988	12.6	34.3	37.8	5.8	9.4	34.3	0.5	7.3	1.6	29.7	38.5
Cyprus	1147	14.5	34.4	22.7	24.3	4.1	34.4	0.0	0.9	3.2	30.7	37.9
Czech Republic	1256	5.4	72.6	18.1	2.0	1.8	72.6	0.3	1.2	0.4	70.8	74.5
Denmark	822	17.7	41.8	15.5	17.7	7.2	41.8	0.4	1.4	5.4	41.4	41.9
England	656	17.5	52.2	25.2	4.5	0.6	52.2	0.0	0.1	0.4	53.8	50.9
France	1124	21.6	55.1	3.9	13.7	5.7	55.1	0.8	0.6	4.3	55.5	54.4
Germany	1094	9.1	54.0	24.9	4.3	7.8	54.0	1.3	2.0	4.5	52.9	55.4
Greece	1471	22.0	37.7	15.8	17.3	7.2	37.7	0.2	1.3	5.7	36.7	38.7
Hong Kong	1275	32.8	34.9	15.8	15.8	0.6	34.9	0.0	0.2	0.5	34.7	35.1
Hungary	1156	2.8	79.0	7.0	6.3	4.9	79.0	0.0	2.6	2.3	77.5	80.7
Iceland	733	12.5	25.0	27.4	32.6	2.4	25.0	0.0	1.0	1.4	21.6	28.0
Iran, Islamic Rep.	1385	23.6	36.3	16.1	21.7	2.2	36.3	0.0	0.7	1.5	35.6	36.8
Ireland	1149	11.6	64.2	16.6	6.8	0.7	64.2	0.1	0.1	0.6	62.6	66.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1926	22.1	25.2	32.2	19.9	0.6	25.2	0.1	0.1	0.4	21.1	28.9
Korea	1107	38.7	43.9	10.1	6.9	0.4	43.9	0.0	0.2	0.2	40.6	46.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	955	19.9	22.4	15.4	21.5	20.8	22.4	0.4	4.3	16.1	18.7	26.2
Netherlands	791	14.4	53.6	22.0	8.2	1.8	53.6	0.1	0.1	1.6	54.9	52.4
New Zealand	1177	16.3	44.7	32.0	5.4	1.5	44.7	0.1	0.5	0.9	39.8	49.0
Norway	921	16.6	39.4	22.6	18.1	3.3	39.4	0.0	1.4	1.8	36.4	42.1
Philippines	2186	26.3	31.5	28.3	13.1	0.8	31.5	0.0	0.2	0.5	30.5	32.6
Portugal	1241	25.7	53.6	9.1	7.6	4.1	53.6	0.0	2.2	1.9	52.2	54.9
Romania	1388	6.5	57.0	22.0	7.5	7.0	57.0	2.5	2.1	2.4	56.1	58.1
Russian Federation	1562	20.6	39.0	18.7	13.9	7.8	39.0	0.1	3.4	4.3	37.0	41.2
Scotland	1064	16.4	30.2	44.5	6.7	2.1	30.2	0.2	0.5	1.4	29.2	31.1
Singapore	1392	16.6	56.7	15.9	9.9	0.9	56.7	0.0	0.0	0.9	54.3	59.1
Slovak Republic	1354	10.6	76.6	6.5	3.2	3.0	76.6	0.2	1.5	1.3	74.0	79.4
Slovenia	1072	3.7	91.5	2.3	1.2	1.3	91.5	0.5	0.2	0.6	90.9	92.1
South Africa	2059	16.8	24.2	43.3	11.0	4.7	24.2	0.2	2.1	2.4	24.6	23.4
Spain	1425	15.2	53.1	23.0	5.8	2.9	53.1	0.0	1.8	1.1	51.3	54.9
Sweden	1055	15.0	54.8	21.3	7.6	1.3	54.8	0.1	0.6	0.7	55.5	54.0
Switzerland	1526	9.6	59.3	21.7	6.6	2.9	59.3	0.4	1.2	1.2	60.5	58.2
Thailand	2235	23.4	30.6	12.8	32.6	0.6	30.6	0.0	0.2	0.3	29.1	32.9
United States	1454	19.6	45.5	28.7	4.7	1.5	45.5	0.0	0.4	1.1	42.2	48.8
INTERNATIONAL AVG	.	16.5	48.4	20.2	11.1	3.8	48.4	0.3	1.2	2.4	46.7	50.1

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: F01 KEY: B  
 Identify characteristic of mammal. (Life Science)  
 Difficulty: 482

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2117	2.5	59.1	22.6	15.3	0.6	59.1	0.0	0.0	0.6	60.2	57.7
Austria	1132	6.1	63.2	14.8	14.9	1.0	63.2	0.0	0.1	0.9	66.3	60.4
Belgium (Fl)	1045	5.9	74.9	11.4	7.0	0.8	74.9	0.0	0.0	0.8	75.2	74.6
Belgium (Fr)	858	19.4	61.4	6.0	9.3	3.9	61.4	0.6	0.1	3.2	60.7	62.0
Bulgaria	536	2.7	84.4	7.1	4.0	1.8	84.4	0.8	0.0	1.0	87.9	80.3
Canada	3069	8.3	59.8	11.9	19.0	1.0	59.8	0.5	0.0	0.4	61.9	57.9
Colombia	992	19.6	54.8	7.4	10.9	7.3	54.8	0.4	2.3	4.6	53.5	56.5
Cyprus	1128	5.8	61.3	18.8	11.8	2.2	61.3	0.2	0.1	1.9	64.1	59.1
Czech Republic	1258	7.3	81.5	3.0	7.4	0.7	81.5	0.2	0.1	0.5	84.1	78.7
Denmark	821	4.0	69.8	10.0	12.5	3.6	69.8	0.4	0.7	2.6	70.8	68.5
England	669	15.9	49.8	14.5	18.4	1.4	49.8	0.0	0.0	1.4	49.6	50.0
France	1111	20.3	60.0	9.7	8.1	1.9	60.0	0.6	0.1	1.1	59.7	60.7
Germany	1067	4.7	67.4	13.5	10.1	4.3	67.4	0.8	0.4	3.2	69.9	64.9
Greece	1466	4.8	65.0	22.4	5.8	1.9	65.0	0.1	0.1	1.7	63.9	66.1
Hong Kong	1268	4.0	80.6	6.5	8.2	0.7	80.6	0.0	0.0	0.7	81.4	80.0
Hungary	1156	2.2	72.3	9.6	11.6	4.3	72.3	0.0	0.4	3.9	73.2	71.3
Iceland	738	11.8	66.6	8.2	12.7	0.7	66.6	0.4	0.0	0.3	69.5	63.7
Iran, Islamic Rep.	1393	7.3	76.3	7.1	6.5	2.8	76.3	0.5	0.0	2.3	78.9	74.3
Ireland	1132	9.5	47.3	10.9	31.8	0.4	47.3	0.1	0.0	0.3	50.7	43.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1924	2.0	78.3	9.0	10.4	0.4	78.3	0.3	0.0	0.1	77.9	78.7
Korea	1085	4.5	80.6	5.0	9.8	0.2	80.6	0.0	0.1	0.1	80.0	81.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	975	2.2	70.0	7.0	16.3	4.5	70.0	0.0	0.4	4.1	72.4	67.4
Lithuania	949	4.8	58.7	12.1	19.2	5.3	58.7	0.6	0.5	4.1	60.9	56.4
Netherlands	791	12.5	59.8	16.6	10.0	1.1	59.8	0.0	0.2	0.9	58.1	61.0
New Zealand	1207	8.8	53.6	16.3	20.2	1.0	53.6	0.6	0.0	0.4	52.0	55.0
Norway	922	8.7	49.3	17.5	23.0	1.5	49.3	0.0	0.2	1.3	50.7	48.1
Philippines	2188	21.3	40.6	24.9	12.5	0.7	40.6	0.0	0.0	0.7	40.3	41.1
Portugal	1245	13.4	72.1	2.7	9.6	2.2	72.1	0.0	0.2	2.0	75.3	68.6
Romania	1383	5.0	70.8	5.1	13.5	5.6	70.8	3.9	0.3	1.4	73.4	68.0
Russian Federation	1572	7.5	49.0	15.5	21.7	6.3	49.0	1.2	0.5	4.6	51.0	46.9
Scotland	1082	13.3	49.0	14.7	22.0	1.0	49.0	0.5	0.2	0.4	47.7	50.3
Singapore	1395	7.7	65.8	9.3	16.6	0.5	65.8	0.0	0.0	0.5	63.7	68.0
Slovak Republic	1346	2.6	80.4	7.4	8.3	1.2	80.4	0.5	0.2	0.6	79.9	81.0
Slovenia	1082	2.0	85.9	4.4	6.5	1.3	85.9	0.2	0.0	1.1	86.5	85.2
South Africa	2018	16.8	55.5	15.0	9.0	3.6	55.5	0.3	1.0	2.2	54.2	56.9
Spain	1395	13.1	67.3	5.9	11.2	2.5	67.3	0.0	0.2	2.3	69.1	65.3
Sweden	1079	5.7	62.5	16.8	14.1	0.9	62.5	0.1	0.5	0.3	63.7	61.3
Switzerland	1512	6.0	74.3	9.1	9.2	1.3	74.3	0.7	0.1	0.6	74.7	74.0
Thailand	2208	2.9	73.7	10.7	11.9	0.8	73.7	0.0	0.1	0.7	73.1	74.5
United States	1459	9.0	60.0	14.0	16.6	0.5	60.0	0.0	0.0	0.4	58.8	61.2
INTERNATIONAL AVG	.	8.3	65.3	11.4	12.9	2.1	65.3	0.4	0.2	1.5	66.1	64.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: F02 KEY: A  
 Relate color and light reflection to temperature of object. (Physics)  
 Difficulty: 504

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2117	60.8	4.0	12.4	22.0	0.7	60.8	0.0	0.0	0.7	59.2	62.8
Austria	1132	79.3	4.2	5.8	9.9	0.7	79.3	0.1	0.3	0.3	77.1	81.8
Belgium (Fl)	1045	82.7	1.7	5.0	10.1	0.5	82.7	0.0	0.0	0.5	80.8	84.5
Belgium (Fr)	859	49.3	5.4	13.9	28.5	2.8	49.3	0.1	0.1	2.7	43.3	55.9
Bulgaria	536	71.8	4.0	9.0	12.7	2.5	71.8	0.7	0.2	1.6	75.6	67.6
Canada	3069	56.1	3.7	15.0	24.4	0.8	56.1	0.3	0.0	0.4	55.8	56.9
Colombia	992	16.3	12.2	19.4	46.5	5.6	16.3	0.3	2.6	2.7	13.8	18.7
Cyprus	1128	33.0	14.0	15.0	36.5	1.5	33.0	0.5	0.2	0.8	30.0	36.0
Czech Republic	1258	76.5	2.1	4.3	16.3	0.7	76.5	0.0	0.1	0.6	75.2	77.9
Denmark	821	59.6	8.6	6.2	22.3	3.3	59.6	0.2	0.7	2.4	57.0	62.9
England	669	66.7	3.8	7.2	21.5	0.8	66.7	0.0	0.0	0.8	64.7	68.4
France	1111	49.0	6.0	13.0	29.8	2.2	49.0	0.7	0.1	1.4	45.1	52.2
Germany	1067	76.3	6.6	4.4	10.2	2.5	76.3	0.9	0.6	1.0	74.6	78.5
Greece	1466	51.9	5.0	18.5	23.1	1.5	51.9	0.5	0.3	0.7	51.5	52.2
Hong Kong	1268	61.0	1.7	2.5	34.0	0.8	61.0	0.0	0.0	0.8	57.7	63.3
Hungary	1156	82.9	2.6	3.3	9.2	2.0	82.9	0.0	0.4	1.6	79.5	86.3
Iceland	738	54.0	7.8	5.3	32.3	0.6	54.0	0.4	0.1	0.1	51.6	56.2
Iran, Islamic Rep.	1393	52.5	8.2	8.6	29.4	1.3	52.5	0.3	0.0	0.9	49.5	54.8
Ireland	1132	43.8	3.8	19.4	32.6	0.5	43.8	0.4	0.0	0.1	42.0	45.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1924	71.7	2.6	7.3	18.1	0.4	71.7	0.3	0.0	0.1	66.7	76.3
Korea	1085	82.9	2.0	8.6	6.2	0.2	82.9	0.0	0.1	0.1	79.2	85.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	975	53.1	10.0	9.7	25.2	2.0	53.1	0.0	0.4	1.7	48.4	57.6
Lithuania	949	48.0	9.6	7.9	30.7	3.8	48.0	0.4	1.1	2.3	40.1	56.1
Netherlands	791	77.5	2.4	4.6	15.2	0.4	77.5	0.0	0.2	0.1	76.2	79.1
New Zealand	1207	48.4	5.0	15.4	30.8	0.5	48.4	0.2	0.0	0.2	46.8	49.7
Norway	922	58.5	3.9	12.3	24.1	1.2	58.5	0.0	0.2	1.0	53.0	63.7
Philippines	2188	31.3	11.2	30.5	26.3	0.7	31.3	0.0	0.1	0.6	30.4	32.2
Portugal	1244	32.3	6.7	23.2	35.6	2.1	32.3	0.0	0.2	1.9	26.3	38.8
Romania	1386	48.5	7.6	9.8	29.5	4.6	48.5	2.5	0.5	1.7	45.1	52.1
Russian Federation	1571	62.0	2.7	3.9	27.2	4.3	62.0	0.3	0.5	3.4	56.3	67.9
Scotland	1082	52.2	4.9	12.2	29.7	1.0	52.2	0.8	0.2	0.1	51.2	53.4
Singapore	1395	65.9	4.2	5.0	24.4	0.4	65.9	0.0	0.0	0.4	63.0	68.9
Slovak Republic	1346	72.5	3.6	5.4	17.5	1.1	72.5	0.4	0.2	0.5	68.2	76.8
Slovenia	1081	82.6	2.1	2.5	11.2	1.5	82.6	0.6	0.0	0.9	81.6	83.8
South Africa	2018	21.3	12.1	30.8	31.6	4.2	21.3	0.3	1.2	2.7	17.4	25.9
Spain	1395	45.0	4.3	14.5	34.5	1.7	45.0	0.0	0.2	1.4	41.3	48.9
Sweden	1080	60.6	3.4	6.5	28.4	1.1	60.6	0.0	0.5	0.6	55.3	65.7
Switzerland	1513	67.9	6.0	8.0	17.4	0.8	67.9	0.5	0.1	0.3	62.5	73.2
Thailand	2208	38.8	1.2	5.4	54.1	0.5	38.8	0.0	0.2	0.4	38.6	39.0
United States	1459	53.6	4.3	14.6	27.1	0.5	53.6	0.1	0.1	0.3	50.3	56.9
INTERNATIONAL AVG	.	57.5	5.4	10.7	24.9	1.6	57.5	0.3	0.3	1.0	54.5	60.4

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent



Item: F03 KEY: A  
 Identify human organ which interprets senses. (Life Science)  
 Difficulty: 486

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2117	71.7	3.4	21.5	2.3	1.1	71.7	0.0	0.1	1.0	72.7	70.5
Austria	1132	79.0	2.4	14.1	3.1	1.3	79.0	0.1	0.3	1.0	80.8	77.0
Belgium (Fl)	1045	45.3	1.1	52.3	0.3	1.0	45.3	0.0	0.0	1.0	39.8	50.4
Belgium (Fr)	859	78.2	5.3	11.3	2.5	2.7	78.2	0.0	0.1	2.6	77.1	79.6
Bulgaria	536	88.1	0.9	6.8	1.1	3.0	88.1	1.3	0.2	1.5	91.0	84.8
Canada	3069	80.5	3.5	12.4	2.7	0.9	80.5	0.0	0.0	0.9	81.6	79.3
Colombia	992	50.9	7.2	29.1	6.3	6.5	50.9	0.3	3.1	3.1	49.5	52.0
Cyprus	.	.	.	.	.	.	.	.	.	.	.	.
Czech Republic	1258	64.6	3.5	30.7	0.5	0.7	64.6	0.3	0.2	0.3	58.7	70.9
Denmark	821	52.4	3.9	36.1	3.0	4.7	52.4	0.8	0.9	3.0	47.2	58.2
England	669	80.1	3.1	13.0	3.4	0.3	80.1	0.0	0.0	0.3	80.0	80.2
France	1111	66.1	4.0	24.9	3.1	1.9	66.1	0.8	0.1	1.0	68.7	63.9
Germany	1067	73.0	1.3	19.1	3.2	3.3	73.0	1.3	0.6	1.4	73.1	73.8
Greece	1466	37.5	1.7	55.2	4.5	1.1	37.5	0.2	0.3	0.7	33.7	41.0
Hong Kong	1268	81.7	5.5	10.9	1.1	0.8	81.7	0.0	0.0	0.8	80.7	82.4
Hungary	1156	84.7	2.2	8.7	2.1	2.2	84.7	0.0	0.4	1.7	84.0	85.4
Iceland	738	54.5	3.4	39.5	1.8	0.8	54.5	0.6	0.1	0.1	48.0	60.7
Iran, Islamic Rep.	1393	55.3	5.1	34.1	4.0	1.5	55.3	0.1	0.0	1.4	46.6	62.4
Ireland	1132	73.5	4.0	18.6	3.5	0.4	73.5	0.0	0.0	0.4	74.1	72.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1924	57.1	1.5	40.4	0.9	0.1	57.1	0.0	0.0	0.1	56.1	58.1
Korea	1085	48.5	2.4	46.1	2.7	0.3	48.5	0.0	0.1	0.2	39.1	55.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	975	51.5	1.3	37.5	4.9	4.8	51.5	0.0	0.4	4.4	48.5	54.5
Lithuania	950	69.4	1.3	16.3	3.7	9.3	69.4	0.2	1.2	8.0	67.9	70.9
Netherlands	791	76.7	2.9	16.8	3.2	0.4	76.7	0.0	0.2	0.2	76.0	77.7
New Zealand	1207	81.3	2.7	12.2	3.6	0.2	81.3	0.1	0.0	0.1	79.2	83.1
Norway	922	86.8	3.7	5.1	3.3	1.0	86.8	0.0	0.2	0.9	88.7	85.0
Philippines	2188	57.0	16.8	17.8	7.5	0.9	57.0	0.0	0.1	0.7	57.7	56.3
Portugal	1245	57.8	12.9	18.7	7.9	2.6	57.8	0.0	0.3	2.3	57.4	58.3
Romania	1386	63.9	3.0	24.6	4.6	3.9	63.9	1.7	0.6	1.5	64.2	63.8
Russian Federation	1572	67.2	3.7	12.8	6.1	10.3	67.2	0.3	0.6	9.4	65.0	69.4
Scotland	1082	76.5	3.0	16.5	3.1	0.9	76.5	0.3	0.2	0.5	76.9	76.7
Singapore	1395	67.8	11.0	18.9	1.6	0.6	67.8	0.0	0.0	0.6	65.8	69.8
Slovak Republic	1346	19.5	1.1	77.1	1.6	0.7	19.5	0.2	0.2	0.3	15.5	23.4
Slovenia	1082	49.3	1.0	47.8	0.7	1.2	49.3	0.7	0.0	0.5	45.3	53.5
South Africa	2018	33.9	16.4	17.9	27.6	4.1	33.9	0.3	1.2	2.6	31.3	37.2
Spain	1395	76.8	4.3	14.9	2.9	1.1	76.8	0.0	0.2	0.9	78.9	74.7
Sweden	1080	68.9	4.3	24.1	1.7	1.1	68.9	0.2	0.7	0.2	66.9	71.2
Switzerland	1513	55.4	2.6	39.1	1.6	1.3	55.4	0.9	0.1	0.3	51.2	59.6
Thailand	2208	36.1	1.6	60.4	1.3	0.6	36.1	0.0	0.2	0.4	35.7	36.5
United States	1459	78.4	4.3	13.4	3.4	0.5	78.4	0.0	0.1	0.4	79.2	77.5
INTERNATIONAL AVG	.	64.0	4.2	26.1	3.7	2.1	64.0	0.3	0.3	1.4	62.4	65.6

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: F04 KEY: D  
 Predict type of area where soil erosion by rain is most likely. (Environment and other content)  
 Difficulty: 471

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2117	11.7	6.4	8.2	72.8	0.9	72.8	0.0	0.1	0.8	72.4	73.2
Austria	1132	9.8	5.3	8.8	74.5	1.5	74.5	0.2	0.3	1.0	75.2	73.2
Belgium (Fl)	1045	12.6	6.0	12.7	68.0	0.7	68.0	0.0	0.0	0.7	67.8	68.3
Belgium (Fr)	859	29.6	11.6	7.6	45.4	5.7	45.4	0.1	0.1	5.6	40.7	50.7
Bulgaria	536	14.6	9.1	4.9	68.5	2.9	68.5	0.9	0.2	1.8	69.2	67.7
Canada	3069	10.2	8.6	11.6	69.0	0.7	69.0	0.0	0.0	0.6	65.6	72.0
Colombia	992	17.7	7.6	17.8	51.8	5.2	51.8	0.2	3.2	1.8	48.7	54.7
Cyprus	1128	11.7	7.6	9.1	70.1	1.4	70.1	0.0	0.2	1.2	70.0	70.6
Czech Republic	1257	10.1	8.9	5.8	73.5	1.6	73.5	0.0	0.2	1.5	68.6	78.6
Denmark	821	8.8	6.6	15.0	64.1	5.5	64.1	0.1	0.9	4.6	64.0	64.6
England	669	12.1	8.6	5.2	73.4	0.7	73.4	0.0	0.0	0.7	69.8	76.4
France	1111	21.1	12.0	9.3	54.8	2.8	54.8	0.6	0.1	2.0	50.2	59.0
Germany	1067	10.1	6.1	13.7	64.5	5.7	64.5	1.5	0.6	3.6	61.4	67.3
Greece	1465	8.8	4.4	9.9	75.1	1.8	75.1	0.2	0.3	1.4	75.4	74.7
Hong Kong	1265	14.2	5.1	4.1	76.5	0.2	76.5	0.0	0.0	0.2	75.3	77.2
Hungary	1156	6.1	8.5	11.6	71.1	2.6	71.1	0.0	0.4	2.2	69.5	72.7
Iceland	738	13.5	13.7	38.9	32.5	1.5	32.5	0.4	0.1	1.0	27.9	36.9
Iran, Islamic Rep.	.	.	.	.	.	.	.	.	.	.	.	.
Ireland	1132	14.0	7.9	6.2	71.6	0.3	71.6	0.2	0.0	0.2	71.2	72.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1924	7.0	5.3	12.9	74.7	0.1	74.7	0.0	0.0	0.1	74.2	75.2
Korea	1085	9.0	5.0	3.0	82.8	0.2	82.8	0.0	0.1	0.1	79.4	85.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	976	11.6	4.8	9.7	71.2	2.7	71.2	0.0	0.4	2.3	74.6	67.4
Lithuania	950	11.0	13.7	18.8	47.6	8.9	47.6	0.1	1.2	7.6	43.5	51.9
Netherlands	791	3.0	3.0	10.8	83.0	0.2	83.0	0.0	0.2	0.0	82.6	83.4
New Zealand	1207	14.2	8.6	5.7	71.3	0.2	71.3	0.0	0.0	0.2	66.8	75.3
Norway	922	5.9	7.0	19.7	65.8	1.6	65.8	0.0	0.2	1.4	63.3	68.2
Philippines	2188	17.6	18.3	17.8	45.6	0.7	45.6	0.0	0.1	0.5	45.7	45.5
Portugal	1245	14.4	14.1	16.5	53.0	1.9	53.0	0.0	0.4	1.5	50.6	55.7
Romania	1383	10.1	15.6	17.6	51.8	4.9	51.8	1.2	0.6	3.1	51.6	51.8
Russian Federation	1572	7.8	4.0	14.0	71.0	3.1	71.0	0.1	0.7	2.4	69.2	72.8
Scotland	1082	15.4	9.6	5.5	68.5	1.0	68.5	0.0	0.2	0.8	65.8	70.9
Singapore	1395	6.6	2.5	3.4	87.1	0.4	87.1	0.0	0.0	0.4	86.1	88.0
Slovak Republic	1347	9.2	6.4	20.9	61.8	1.7	61.8	0.2	0.2	1.2	56.7	66.9
Slovenia	1082	9.4	4.9	10.9	73.4	1.5	73.4	0.5	0.0	1.0	73.6	73.1
South Africa	2018	16.9	30.0	21.7	27.2	4.2	27.2	0.2	1.3	2.7	26.2	28.6
Spain	1395	12.6	5.6	14.9	65.4	1.5	65.4	0.0	0.2	1.3	61.2	69.8
Sweden	1080	9.2	5.4	12.5	71.5	1.5	71.5	0.0	0.7	0.8	69.8	73.1
Switzerland	1513	14.7	8.3	10.5	65.1	1.4	65.1	0.2	0.1	1.1	61.7	68.5
Thailand	2208	11.5	3.7	10.4	74.1	0.3	74.1	0.0	0.2	0.1	71.5	78.1
United States	1459	9.2	9.9	13.1	66.9	0.9	66.9	0.0	0.1	0.8	61.8	71.9
INTERNATIONAL AVG	.	11.9	8.5	12.1	65.5	2.1	65.5	0.2	0.3	1.5	63.6	67.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: F05 KEY: A  
 Relate level of oxygen to elevation. (Earth Science)  
 Difficulty: 378

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2117	86.6	5.2	2.4	5.3	0.6	86.6	0.0	0.1	0.6	86.8	86.3
Austria	1132	86.2	6.8	1.5	4.3	1.3	86.2	0.3	0.3	0.7	89.0	83.9
Belgium (Fl)	1045	85.9	6.1	1.4	6.2	0.3	85.9	0.0	0.0	0.3	86.0	85.9
Belgium (Fr)	859	73.9	7.0	3.4	13.6	2.2	73.9	0.2	0.2	1.8	70.2	77.5
Bulgaria	536	91.6	2.9	1.2	2.6	1.7	91.6	0.1	0.2	1.4	92.9	90.0
Canada	3069	86.4	5.8	1.6	5.6	0.5	86.4	0.0	0.1	0.4	86.1	86.8
Colombia	992	58.0	9.6	11.7	14.4	6.3	58.0	0.2	3.5	2.6	57.6	58.8
Cyprus	1128	56.9	18.8	11.7	10.6	2.0	56.9	0.0	0.2	1.8	54.6	59.2
Czech Republic	1257	89.7	1.2	0.5	7.4	1.3	89.7	0.5	0.5	0.3	89.0	90.4
Denmark	821	72.0	6.4	3.0	13.9	4.7	72.0	0.3	1.3	3.1	72.4	72.0
England	669	85.3	4.4	1.5	8.4	0.4	85.3	0.0	0.0	0.4	84.6	85.8
France	1111	64.6	4.8	1.4	26.9	2.3	64.6	1.6	0.1	0.5	63.9	65.4
Germany	1067	83.5	4.5	1.3	7.3	3.4	83.5	1.5	0.6	1.3	83.7	84.5
Greece	1466	70.8	8.5	5.5	13.3	1.9	70.8	0.4	0.5	1.0	69.0	72.6
Hong Kong	1265	89.4	2.4	1.2	6.5	0.4	89.4	0.1	0.0	0.3	90.2	88.8
Hungary	1156	81.4	3.5	3.2	9.5	2.5	81.4	0.0	0.4	2.0	81.9	80.9
Iceland	738	80.4	5.5	2.8	10.1	1.2	80.4	0.6	0.1	0.5	80.4	80.4
Iran, Islamic Rep.	1392	76.1	4.4	3.3	15.6	0.5	76.1	0.0	0.0	0.5	75.5	76.6
Ireland	1132	86.5	2.3	2.2	8.9	0.1	86.5	0.1	0.0	0.0	84.2	89.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1924	70.0	4.8	1.5	23.2	0.5	70.0	0.4	0.0	0.1	70.0	70.0
Korea	1085	86.7	5.9	1.9	5.3	0.2	86.7	0.0	0.1	0.1	84.3	88.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	976	55.6	19.0	4.7	17.4	3.3	55.6	0.0	0.4	2.8	51.4	59.6
Lithuania	950	63.9	3.4	4.0	22.3	6.4	63.9	0.3	1.4	4.7	61.0	66.8
Netherlands	791	85.2	6.3	2.4	5.5	0.7	85.2	0.1	0.2	0.3	83.2	87.2
New Zealand	1207	85.0	4.4	3.0	7.2	0.4	85.0	0.2	0.0	0.2	83.8	86.1
Norway	922	83.7	7.3	1.3	6.7	0.9	83.7	0.0	0.2	0.8	81.4	85.9
Philippines	2188	55.0	12.3	15.1	16.8	0.8	55.0	0.0	0.2	0.6	56.1	53.8
Portugal	1245	66.0	8.2	10.9	13.0	1.8	66.0	0.0	0.6	1.2	62.8	69.4
Romania	1383	65.3	12.1	5.1	12.6	4.8	65.3	1.5	0.7	2.7	64.7	65.8
Russian Federation	1572	78.9	5.6	2.0	10.7	2.8	78.9	0.2	0.7	1.9	79.4	78.5
Scotland	1082	84.4	4.6	2.8	7.3	0.9	84.4	0.4	0.3	0.2	82.0	86.7
Singapore	1395	89.5	2.8	1.6	5.8	0.3	89.5	0.0	0.0	0.3	89.1	89.9
Slovak Republic	1347	86.5	2.1	0.8	9.8	0.8	86.5	0.2	0.2	0.4	83.2	89.8
Slovenia	1082	81.8	2.3	1.2	13.0	1.7	81.8	0.5	0.0	1.2	83.3	80.2
South Africa	2018	42.9	13.3	10.1	29.2	4.5	42.9	0.2	1.5	2.9	41.2	45.4
Spain	1395	76.0	6.2	5.6	11.0	1.2	76.0	0.0	0.4	0.9	74.4	77.6
Sweden	1080	82.2	7.2	0.9	8.6	1.1	82.2	0.1	0.7	0.3	82.5	82.1
Switzerland	1513	77.3	8.4	2.6	10.3	1.4	77.3	1.0	0.1	0.3	77.8	76.8
Thailand	2208	77.3	2.8	6.2	13.4	0.4	77.3	0.0	0.2	0.2	76.0	78.8
United States	1459	87.8	5.5	2.5	3.3	0.8	87.8	0.1	0.1	0.6	85.8	89.9
INTERNATIONAL AVG	.	77.2	6.4	3.7	11.1	1.7	77.2	0.3	0.4	1.1	76.3	78.1

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: F06 KEY: E  
 Relate rusting iron to the presence of oxygen and moisture. (Chemistry)  
 Difficulty: 467

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2117	4.5	8.9	8.4	8.8	67.8	1.6	67.8	0.0	0.1	1.5	68.7	66.7
Austria	1132	3.6	6.7	8.1	7.0	71.5	3.0	71.5	0.1	0.3	2.6	74.1	67.9
Belgium (Fl)	1045	3.9	12.5	9.1	6.2	66.0	2.4	66.0	0.0	0.0	2.4	66.2	65.8
Belgium (Fr)	859	5.8	9.3	10.6	7.7	58.2	8.4	58.2	0.2	0.2	7.9	56.0	60.3
Bulgaria	536	4.6	4.0	4.1	5.7	77.7	3.9	77.7	0.7	0.2	3.1	83.2	71.6
Canada	3069	4.6	9.5	10.0	7.6	66.7	1.6	66.7	0.0	0.1	1.5	65.2	67.9
Colombia	992	6.1	8.1	12.9	15.4	50.5	6.9	50.5	0.1	4.5	2.4	49.5	51.2
Cyprus	1128	6.7	14.1	13.3	10.0	51.9	4.0	51.9	0.3	0.2	3.5	53.6	50.2
Czech Republic	1257	4.5	6.6	7.0	6.2	73.6	2.1	73.6	0.2	0.5	1.3	70.9	76.5
Denmark	821	10.2	8.4	9.0	9.4	53.2	9.9	53.2	0.3	1.3	8.3	51.3	55.4
England	669	5.8	8.8	10.9	8.2	65.0	1.3	65.0	0.0	0.0	1.3	59.9	69.4
France	1111	5.0	7.7	9.8	8.6	63.7	5.2	63.7	0.2	0.1	4.8	62.7	64.1
Germany	1067	3.6	5.5	4.9	6.9	69.8	9.3	69.8	0.6	0.6	8.1	68.9	72.4
Greece	1465	7.1	12.1	10.6	6.3	59.3	4.6	59.3	0.3	0.7	3.7	56.3	62.2
Hong Kong	1265	9.1	5.1	9.6	5.6	70.2	0.5	70.2	0.1	0.0	0.3	68.7	71.2
Hungary	1156	2.4	8.8	5.8	4.3	75.3	3.4	75.3	0.0	0.6	2.8	73.2	77.4
Iceland	738	7.5	2.2	13.9	5.4	68.5	2.5	68.5	0.3	0.1	2.0	65.8	71.1
Iran, Islamic Rep.	1392	3.1	6.6	10.0	6.1	73.2	1.1	73.2	0.2	0.0	0.8	68.6	76.8
Ireland	1132	5.5	12.9	14.9	10.7	54.7	1.3	54.7	0.2	0.0	1.2	53.6	55.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1924	10.2	6.4	16.6	7.2	58.7	1.0	58.7	0.5	0.1	0.4	57.3	60.1
Korea	1085	6.3	7.1	12.0	2.6	71.7	0.3	71.7	0.0	0.1	0.2	69.4	73.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	975	4.7	9.5	4.1	18.3	54.9	8.5	54.9	0.0	0.6	7.9	50.1	60.3
Lithuania	950	7.0	8.9	5.4	8.7	48.7	21.3	48.7	0.3	1.5	19.5	44.6	52.8
Netherlands	791	6.8	4.7	10.1	4.4	71.6	2.3	71.6	0.0	0.2	2.1	67.9	76.2
New Zealand	1207	5.5	10.5	10.2	9.6	63.0	1.3	63.0	0.0	0.1	1.2	61.0	64.7
Norway	922	5.6	9.0	5.9	5.4	71.5	2.6	71.5	0.0	0.2	2.4	73.0	69.9
Philippines	2188	9.8	11.5	19.0	7.3	51.6	0.9	51.6	0.0	0.2	0.6	54.6	48.3
Portugal	1245	6.2	9.8	8.5	10.8	58.9	5.8	58.9	0.0	0.6	5.1	55.9	62.1
Romania	1383	3.4	10.7	3.5	12.2	64.6	5.6	64.6	1.4	0.7	3.5	64.0	65.4
Russian Federation	1572	2.9	6.0	4.0	11.2	67.1	8.9	67.1	0.5	0.8	7.6	67.0	67.2
Scotland	1082	5.4	12.9	12.4	12.7	54.6	2.1	54.6	0.1	0.3	1.7	51.1	58.1
Singapore	1395	3.7	5.0	8.2	3.4	79.1	0.6	79.1	0.0	0.0	0.6	78.5	79.7
Slovak Republic	1347	5.1	9.3	6.9	9.7	65.2	3.8	65.2	0.2	0.2	3.3	59.7	70.8
Slovenia	1081	4.7	10.3	5.1	6.4	70.9	2.7	70.9	0.3	0.0	2.4	66.0	76.1
South Africa	2018	9.0	16.7	16.3	25.9	26.3	5.8	26.3	0.3	1.5	4.0	25.6	27.2
Spain	1395	5.0	7.7	10.4	4.2	70.1	2.6	70.1	0.0	0.4	2.2	70.0	70.2
Sweden	1080	6.7	6.3	5.7	2.7	77.1	1.5	77.1	0.0	0.7	0.8	77.8	76.5
Switzerland	1513	4.9	7.2	7.0	6.9	70.9	3.1	70.9	0.9	0.1	2.1	68.4	73.2
Thailand	2208	5.0	11.0	8.1	5.5	69.8	0.7	69.8	0.0	0.2	0.5	68.1	72.2
United States	1459	5.4	11.0	14.3	6.5	61.6	1.2	61.6	0.0	0.1	1.1	59.2	64.0
INTERNATIONAL AVG	.	5.7	8.7	9.4	8.2	64.1	3.9	64.1	0.2	0.5	3.2	62.7	65.6

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: G07 KEY: A  
 Identify correct way to place batteries in a flashlight. (Physics)  
 Difficulty: 312

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2111	85.6	5.2	3.9	4.5	0.7	85.6	0.0	0.2	0.5	85.1	86.2
Austria	1129	89.4	4.3	2.5	2.7	0.9	89.4	0.0	0.3	0.6	87.9	91.0
Belgium (Fl)	1037	88.2	4.1	2.7	4.5	0.5	88.2	0.0	0.0	0.5	86.1	90.0
Belgium (Fr)	862	80.7	6.7	4.9	6.5	1.1	80.7	0.0	0.3	0.9	78.5	83.1
Bulgaria	635	90.0	4.1	2.9	1.3	1.7	90.0	0.0	0.0	1.7	89.6	90.5
Canada	3048	88.1	4.0	3.6	4.0	0.4	88.1	0.0	0.0	0.4	84.2	91.9
Colombia	1005	72.5	9.0	5.0	9.2	4.2	72.5	0.1	3.0	1.0	67.9	78.0
Cyprus	1145	81.1	6.8	5.3	6.0	0.8	81.1	0.0	0.3	0.5	81.0	81.1
Czech Republic	1238	92.6	1.6	2.0	3.1	0.6	92.6	0.3	0.1	0.3	89.9	95.2
Denmark	823	85.4	4.6	3.3	4.4	2.4	85.4	0.1	1.1	1.2	81.5	89.9
England	678	91.5	3.0	2.5	2.4	0.5	91.5	0.0	0.1	0.4	89.6	93.3
France	1135	87.0	3.7	3.1	5.9	0.4	87.0	0.1	0.1	0.2	83.9	89.8
Germany	1099	84.5	3.3	1.9	4.0	6.4	84.5	0.3	0.7	5.3	82.7	86.3
Greece	1490	77.6	7.3	4.8	9.0	1.4	77.6	0.2	0.4	0.8	70.4	84.3
Hong Kong	1280	91.4	2.6	3.1	2.6	0.3	91.4	0.1	0.1	0.2	88.1	93.8
Hungary	1147	88.2	3.3	5.5	2.0	0.9	88.2	0.0	0.3	0.6	86.0	90.5
Iceland	735	85.2	5.4	2.4	6.6	0.4	85.2	0.0	0.1	0.3	79.1	90.3
Iran, Islamic Rep.	1410	58.0	9.9	14.2	16.4	1.5	58.0	0.0	1.1	0.3	50.1	64.0
Ireland	1157	82.3	7.2	5.3	5.0	0.1	82.3	0.1	0.0	0.0	78.1	87.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1934	92.4	2.7	2.4	2.4	0.1	92.4	0.0	0.1	0.0	92.3	92.5
Korea	1100	94.9	1.1	2.2	1.6	0.1	94.9	0.0	0.0	0.1	95.2	94.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	952	83.9	3.0	4.0	6.8	2.3	83.9	0.0	0.3	2.0	77.7	90.1
Lithuania	932	81.8	3.9	5.2	3.6	5.5	81.8	0.6	1.2	3.8	73.7	90.0
Netherlands	774	86.4	6.3	3.2	3.5	0.5	86.4	0.0	0.1	0.4	82.4	90.0
New Zealand	1185	84.2	6.0	4.0	5.6	0.2	84.2	0.1	0.1	0.1	80.3	87.9
Norway	913	84.0	5.0	5.6	4.1	1.3	84.0	0.0	0.3	1.0	78.7	88.7
Philippines	2197	71.9	11.3	9.1	7.3	0.3	71.9	0.0	0.1	0.2	67.6	76.5
Portugal	1260	82.1	6.6	4.2	5.1	1.9	82.1	0.0	0.8	1.1	76.6	88.3
Romania	1401	83.4	4.2	5.4	3.9	3.1	83.4	0.6	0.6	1.9	80.7	86.3
Russian Federation	1563	82.5	5.0	5.2	3.7	3.6	82.5	0.0	0.8	2.8	75.5	89.8
Scotland	1071	86.5	6.3	3.9	3.2	0.1	86.5	0.0	0.0	0.1	84.9	87.9
Singapore	1333	94.2	1.7	0.9	3.0	0.2	94.2	0.0	0.0	0.1	93.5	94.9
Slovak Republic	1345	88.7	3.8	3.5	3.2	0.8	88.7	0.1	0.2	0.5	82.5	95.0
Slovenia	1081	88.4	3.6	4.2	2.5	1.4	88.4	0.1	0.1	1.2	83.3	93.5
South Africa	1976	50.3	14.3	17.4	15.5	2.4	50.3	0.4	1.0	1.1	36.9	66.6
Spain	1400	89.2	4.2	3.1	2.8	0.8	89.2	0.0	0.4	0.4	87.7	90.6
Sweden	1084	86.0	4.6	3.8	5.0	0.5	86.0	0.0	0.2	0.4	83.1	88.9
Switzerland	1514	84.3	4.2	2.9	7.2	1.4	84.3	0.3	0.2	0.9	80.9	87.6
Thailand	2198	90.8	2.6	3.4	2.9	0.4	90.8	0.0	0.0	0.3	89.2	93.3
United States	1445	86.8	4.9	3.6	4.0	0.7	86.8	0.0	0.0	0.7	84.7	89.0
INTERNATIONAL AVG	.	84.3	5.0	4.4	4.9	1.3	84.3	0.1	0.4	0.9	80.7	88.0

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: G08 KEY: B  
 Identify main function of red blood cells. (Life Science)  
 Difficulty: 528

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2111	21.2	65.0	4.9	7.8	1.1	65.0	0.0	0.2	0.9	64.6	65.4
Austria	1130	17.8	65.8	4.3	9.4	2.8	65.8	0.2	0.3	2.4	61.2	70.5
Belgium (Fl)	1037	22.2	51.1	5.8	18.8	2.0	51.1	0.0	0.1	1.9	44.6	57.1
Belgium (Fr)	862	19.2	61.2	3.9	11.8	4.0	61.2	0.5	0.3	3.2	55.2	68.4
Bulgaria	635	22.4	53.9	3.7	12.5	7.6	53.9	0.9	0.0	6.7	51.9	56.4
Canada	3048	23.6	58.6	5.8	10.8	1.3	58.6	0.2	0.0	1.1	55.1	62.4
Colombia	1005	28.8	44.8	3.0	18.1	5.3	44.8	0.3	3.0	1.9	41.3	49.0
Cyprus	1145	36.7	40.9	8.8	9.9	3.6	40.9	0.2	0.4	3.0	38.6	43.2
Czech Republic	1238	5.5	75.0	0.9	17.2	1.5	75.0	0.7	0.2	0.7	69.3	80.4
Denmark	823	22.3	39.3	5.4	25.8	7.2	39.3	0.4	1.1	5.7	36.4	43.3
England	678	17.0	71.1	4.0	7.5	0.4	71.1	0.0	0.1	0.3	68.0	73.8
France	1135	22.0	55.8	3.7	15.8	2.8	55.8	0.7	0.1	2.0	48.4	62.8
Germany	1099	16.9	66.4	2.2	9.0	5.4	66.4	2.7	0.7	1.9	63.2	70.0
Greece	1490	19.5	48.1	5.4	23.7	3.3	48.1	0.2	0.4	2.7	47.6	48.6
Hong Kong	1280	18.3	53.1	5.4	22.8	0.4	53.1	0.1	0.1	0.2	41.9	61.7
Hungary	1147	10.7	69.2	3.0	12.6	4.5	69.2	0.0	0.3	4.3	68.1	70.4
Iceland	735	14.7	61.2	2.5	20.4	1.2	61.2	0.2	0.1	0.9	56.1	65.5
Iran, Islamic Rep.	1410	21.7	40.0	3.5	32.3	2.5	40.0	0.0	1.1	1.3	37.2	42.3
Ireland	1157	21.6	63.6	3.3	11.4	0.1	63.6	0.1	0.0	0.0	58.7	69.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1934	20.7	43.5	9.6	25.7	0.5	43.5	0.2	0.1	0.2	42.7	44.2
Korea	1100	6.0	39.8	19.3	34.9	0.0	39.8	0.0	0.0	0.0	33.4	44.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	952	26.0	30.3	8.9	28.6	6.1	30.3	0.0	0.3	5.8	25.1	35.2
Lithuania	932	32.9	24.0	6.1	13.6	23.3	24.0	0.1	1.2	22.1	25.1	22.8
Netherlands	774	23.5	53.2	3.9	17.7	1.7	53.2	0.0	0.1	1.6	48.4	57.4
New Zealand	1185	22.6	59.7	5.3	11.6	0.7	59.7	0.1	0.1	0.5	53.3	65.8
Norway	913	20.8	46.0	5.5	26.1	1.7	46.0	0.0	0.3	1.4	40.7	50.7
Philippines	2197	21.2	46.5	16.1	15.7	0.5	46.5	0.0	0.1	0.4	48.0	44.8
Portugal	1260	32.0	48.6	3.0	14.3	2.1	48.6	0.0	0.8	1.2	48.0	49.3
Romania	1396	20.0	48.9	4.9	18.2	8.0	48.9	4.3	0.6	3.1	49.0	49.1
Russian Federation	1563	21.5	46.6	4.2	18.8	8.9	46.6	0.5	0.9	7.5	45.8	47.3
Scotland	1071	23.2	62.8	4.3	8.7	0.9	62.8	0.0	0.0	0.9	59.7	65.9
Singapore	1333	12.6	76.3	1.7	9.0	0.3	76.3	0.0	0.0	0.3	76.2	76.4
Slovak Republic	1345	5.0	80.6	2.0	9.4	3.0	80.6	2.1	0.3	0.6	78.9	82.4
Slovenia	1080	13.6	64.7	3.9	15.4	2.5	64.7	1.1	0.1	1.3	66.2	63.1
South Africa	1976	22.0	39.5	10.5	24.9	3.2	39.5	0.3	1.0	1.9	37.9	41.2
Spain	1400	12.0	76.8	1.1	8.6	1.5	76.8	0.0	0.4	1.2	73.1	80.2
Sweden	1084	24.6	52.3	4.6	17.2	1.3	52.3	0.2	0.2	0.9	48.2	56.1
Switzerland	1514	26.9	49.6	5.2	14.8	3.5	49.6	1.0	0.2	2.3	43.2	55.7
Thailand	2198	19.7	52.8	9.8	17.1	0.6	52.8	0.0	0.0	0.6	51.0	55.3
United States	1445	15.9	71.5	5.3	6.5	0.9	71.5	0.0	0.1	0.8	69.9	73.0
INTERNATIONAL AVG	.	20.1	54.9	5.4	16.4	3.2	54.9	0.4	0.4	2.4	51.8	58.0

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: G09 KEY: C  
 Identify reproductive cells involved in heredity. (Life Science)  
 Difficulty: 430

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2111	20.2	5.5	61.0	10.6	2.7	61.0	0.0	0.2	2.5	64.1	57.9
Austria	1130	10.1	4.4	80.1	4.1	1.2	80.1	0.0	0.3	0.9	83.7	76.4
Belgium (Fl)	1037	11.8	3.3	79.3	3.8	1.9	79.3	0.0	0.1	1.7	83.9	75.2
Belgium (Fr)	862	10.7	6.0	71.3	5.3	6.7	71.3	0.1	0.4	6.1	72.8	69.1
Bulgaria	635	8.8	2.8	81.8	3.4	3.2	81.8	0.3	0.0	2.9	80.4	83.5
Canada	3048	13.8	3.9	71.8	8.4	2.1	71.8	0.1	0.0	2.1	73.3	70.3
Colombia	1005	7.7	3.9	74.9	6.6	6.9	74.9	0.1	3.4	3.4	75.6	74.3
Cyprus	1145	16.2	16.6	54.3	9.1	3.8	54.3	0.1	0.5	3.2	55.8	52.8
Czech Republic	1238	9.5	0.9	87.7	1.0	1.0	87.7	0.2	0.2	0.6	88.6	86.8
Denmark	823	10.9	6.6	64.1	10.0	8.5	64.1	0.1	1.2	7.2	63.7	64.4
England	678	11.5	3.2	74.6	8.9	1.8	74.6	0.0	0.1	1.7	76.4	72.9
France	1135	8.1	2.0	80.7	6.3	2.9	80.7	0.1	0.1	2.7	82.0	79.9
Germany	1099	11.8	3.9	74.8	3.8	5.7	74.8	0.3	0.7	4.7	79.9	69.6
Greece	1490	15.1	5.4	69.4	7.4	2.7	69.4	0.1	0.5	2.1	74.1	65.2
Hong Kong	1280	8.3	1.0	87.5	2.7	0.4	87.5	0.1	0.1	0.3	89.5	86.0
Hungary	1147	6.3	5.8	79.1	4.2	4.7	79.1	0.0	0.4	4.3	83.0	74.9
Iceland	735	17.5	3.8	71.4	5.9	1.4	71.4	0.0	0.4	1.0	76.6	67.1
Iran, Islamic Rep.	1410	8.4	17.5	36.7	32.1	5.3	36.7	0.0	1.1	4.2	35.5	37.6
Ireland	1157	16.9	3.4	70.1	8.3	1.3	70.1	0.5	0.0	0.8	72.1	67.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1934	12.5	2.0	74.7	10.6	0.2	74.7	0.0	0.1	0.2	78.7	70.8
Korea	1100	7.7	4.2	76.1	11.9	0.0	76.1	0.0	0.0	0.0	77.6	75.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	952	13.4	3.8	52.5	22.4	7.9	52.5	0.0	0.5	7.4	54.0	50.7
Lithuania	932	15.2	3.6	43.6	20.6	17.0	43.6	0.2	1.6	15.2	47.5	39.7
Netherlands	774	19.0	8.1	65.8	4.5	2.7	65.8	0.0	0.1	2.6	73.6	59.2
New Zealand	1185	19.5	6.8	58.6	13.9	1.2	58.6	0.0	0.1	1.1	63.0	54.4
Norway	913	11.8	5.3	71.3	8.6	3.0	71.3	0.0	0.3	2.7	74.3	68.7
Philippines	2198	6.9	3.0	71.8	17.4	0.9	71.8	0.0	0.2	0.7	75.6	67.7
Portugal	1260	11.3	5.0	72.9	7.4	3.5	72.9	0.0	0.8	2.6	76.9	68.4
Romania	1402	8.2	4.0	71.6	11.8	4.5	71.6	1.0	0.9	2.6	72.4	70.8
Russian Federation	1563	12.3	5.1	62.4	12.5	7.7	62.4	0.0	1.1	6.6	64.6	60.0
Scotland	1071	14.3	3.4	70.1	10.8	1.5	70.1	0.0	0.0	1.5	71.4	69.2
Singapore	1333	22.0	3.3	66.1	7.1	1.5	66.1	0.0	0.0	1.5	70.2	62.1
Slovak Republic	1345	7.3	1.9	84.4	4.8	1.5	84.4	0.2	0.4	0.9	85.3	83.5
Slovenia	1081	11.1	10.9	64.1	9.8	4.1	64.1	0.7	0.1	3.2	67.2	61.1
South Africa	1976	20.1	10.6	49.0	16.3	4.0	49.0	0.2	1.0	2.9	49.2	48.9
Spain	1400	11.3	1.9	79.3	5.2	2.3	79.3	0.0	0.6	1.7	81.0	77.8
Sweden	1084	15.7	5.8	65.1	11.3	2.1	65.1	0.1	0.2	1.8	67.0	63.4
Switzerland	1513	10.9	5.4	73.0	6.6	4.1	73.0	0.4	0.5	3.1	77.4	68.8
Thailand	2198	11.7	1.9	74.9	11.1	0.5	74.9	0.0	0.0	0.5	72.5	78.3
United States	1445	11.5	2.4	78.1	6.8	1.2	78.1	0.0	0.1	1.1	80.2	76.0
INTERNATIONAL AVG	.	12.4	4.9	69.9	9.3	3.4	69.9	0.1	0.5	2.8	72.3	67.7

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: G10 KEY: C  
 Select correct statement regarding the atomic makeup of matter. (Chemistry)  
 Difficulty: 574

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2111	27.9	13.7	46.4	10.7	1.4	46.4	0.0	0.2	1.1	43.0	49.9
Austria	1130	16.5	11.5	60.4	10.6	1.1	60.4	0.0	0.3	0.8	55.4	64.1
Belgium (Fl)	1037	29.8	12.0	41.7	12.5	3.9	41.7	0.0	0.1	3.8	36.4	46.6
Belgium (Fr)	862	26.0	9.8	41.1	9.9	13.1	41.1	0.1	0.6	12.4	36.2	45.6
Bulgaria	635	14.8	10.8	61.9	6.9	5.6	61.9	0.1	0.0	5.5	59.9	64.1
Canada	3048	27.5	10.7	49.5	11.5	0.8	49.5	0.0	0.0	0.8	44.2	55.2
Colombia	1005	25.5	7.4	51.7	8.9	6.5	51.7	0.1	3.4	2.9	45.8	58.6
Cyprus	1145	39.3	24.3	30.1	4.5	1.9	30.1	0.1	0.5	1.3	28.2	32.0
Czech Republic	1240	17.5	18.4	58.3	3.8	2.1	58.3	0.5	0.2	1.4	52.3	64.0
Denmark	823	33.7	9.4	28.0	18.0	10.9	28.0	0.4	1.4	9.1	24.6	31.6
England	678	31.1	8.5	47.5	12.2	0.7	47.5	0.0	0.1	0.6	38.5	55.7
France	1135	30.9	9.3	39.1	11.4	9.3	39.1	0.4	0.1	8.8	38.8	38.7
Germany	1099	20.4	12.6	47.0	10.3	9.6	47.0	0.3	0.8	8.5	39.3	54.6
Greece	1490	23.0	5.7	61.7	7.2	2.4	61.7	0.1	0.6	1.8	61.8	61.6
Hong Kong	1275	35.7	10.7	40.5	12.3	0.7	40.5	0.1	0.1	0.6	33.3	46.0
Hungary	1147	26.6	13.7	53.9	2.8	3.0	53.9	0.0	0.5	2.5	47.7	60.4
Iceland	735	42.0	10.1	38.9	7.5	1.6	38.9	0.0	0.4	1.2	37.7	39.8
Iran, Islamic Rep.	1410	24.1	16.0	42.8	14.0	3.0	42.8	0.3	1.2	1.6	42.2	43.2
Ireland	1157	28.3	11.7	50.0	9.1	0.9	50.0	0.1	0.0	0.8	45.5	55.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1934	27.1	10.5	42.5	19.5	0.6	42.5	0.0	0.1	0.5	41.4	43.4
Korea	1100	25.9	10.5	51.5	11.4	0.8	51.5	0.0	0.0	0.8	48.5	53.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	951	32.4	11.8	41.4	5.4	8.9	41.4	0.0	0.9	8.0	38.8	43.8
Lithuania	931	26.7	7.8	36.3	7.7	21.4	36.3	0.1	1.6	19.7	39.6	32.9
Netherlands	774	33.5	11.6	33.8	17.6	3.6	33.8	0.0	0.1	3.5	29.9	37.5
New Zealand	1185	31.4	11.9	42.8	13.4	0.5	42.8	0.1	0.1	0.3	39.5	46.0
Norway	914	34.9	7.8	38.7	16.1	2.4	38.7	0.0	0.4	1.9	34.7	42.3
Philippines	2198	41.2	21.7	22.3	14.1	0.6	22.3	0.0	0.2	0.5	23.2	21.4
Portugal	1260	35.1	10.5	37.5	9.1	7.7	37.5	0.0	1.0	6.7	39.2	35.6
Romania	1399	23.3	15.8	50.4	5.6	4.9	50.4	0.6	0.9	3.4	47.4	53.8
Russian Federation	1563	20.5	8.9	53.2	9.6	7.8	53.2	0.1	1.1	6.5	51.4	55.0
Scotland	1071	29.5	13.2	45.1	11.0	1.1	45.1	0.1	0.0	1.1	39.5	50.4
Singapore	1333	37.1	11.5	42.0	8.3	1.1	42.0	0.0	0.0	1.1	40.4	43.5
Slovak Republic	1345	16.3	17.4	58.4	5.6	2.2	58.4	0.2	0.4	1.6	55.6	61.2
Slovenia	1081	17.5	16.5	59.5	4.8	1.7	59.5	0.3	0.1	1.3	55.9	63.0
South Africa	1976	23.9	12.3	40.8	19.4	3.6	40.8	0.1	1.0	2.5	38.5	43.1
Spain	1400	30.8	16.1	44.0	6.4	2.7	44.0	0.0	0.7	2.0	44.5	43.5
Sweden	1084	37.4	9.6	39.9	12.3	0.8	39.9	0.1	0.3	0.4	34.4	45.2
Switzerland	1514	30.9	14.9	35.3	14.3	4.6	35.3	0.0	0.5	4.1	31.7	38.7
Thailand	2198	40.4	14.7	27.1	16.6	1.2	27.1	0.0	0.0	1.1	26.1	28.7
United States	1445	23.3	10.1	56.9	8.8	0.8	56.9	0.0	0.1	0.7	52.0	61.8
INTERNATIONAL AVG	.	28.5	12.3	44.7	10.5	3.9	44.7	0.1	0.5	3.3	41.6	47.8

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent



Item: G11 KEY: C  
 Identify type of rock from description of its formation. (Earth Science)  
 Difficulty: 587

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2111	12.6	22.7	44.9	17.9	1.8	44.9	0.0	0.4	1.5	44.6	45.2
Austria	1130	10.6	12.9	55.2	19.5	1.8	55.2	0.2	0.3	1.3	57.7	52.3
Belgium (Fl)	1037	22.3	18.3	28.2	25.6	5.7	28.2	0.0	0.1	5.6	27.6	28.6
Belgium (Fr)	862	22.4	14.5	24.0	24.4	14.8	24.0	0.0	0.8	13.9	22.7	25.6
Bulgaria	635	9.4	27.4	30.0	19.6	13.6	30.0	0.4	0.3	12.9	29.0	31.9
Canada	3048	13.4	18.8	46.2	20.3	1.3	46.2	0.2	0.0	1.1	49.0	44.0
Colombia	1005	17.6	21.6	31.3	22.4	7.1	31.3	0.5	3.5	3.0	28.7	34.4
Cyprus	1145	16.0	29.3	26.9	22.9	4.8	26.9	0.1	0.6	4.2	25.3	28.5
Czech Republic	1240	18.3	11.6	55.7	12.5	2.0	55.7	0.0	0.2	1.8	60.1	51.4
Denmark	823	21.0	22.5	14.7	23.4	18.3	14.7	0.2	1.7	16.4	11.2	18.0
England	678	9.5	17.6	51.4	20.3	1.3	51.4	0.0	0.1	1.2	51.1	51.7
France	1135	18.8	19.7	25.1	28.2	8.1	25.1	0.0	0.1	8.0	23.5	27.1
Germany	1099	6.0	24.8	50.9	8.6	9.7	50.9	0.1	0.9	8.7	53.8	47.8
Greece	1490	8.8	12.8	55.7	19.7	3.0	55.7	0.1	0.6	2.3	56.4	55.2
Hong Kong	1275	3.6	11.4	68.8	15.7	0.4	68.8	0.1	0.1	0.2	67.9	69.5
Hungary	1147	4.9	7.0	77.7	7.9	2.5	77.7	0.0	0.6	1.9	80.2	75.1
Iceland	735	31.2	22.6	37.2	7.8	1.2	37.2	0.1	0.4	0.7	39.2	35.5
Iran, Islamic Rep.	1410	4.7	4.9	86.2	2.6	1.7	86.2	0.0	1.2	0.5	88.0	84.7
Ireland	1157	7.7	11.3	60.1	20.0	0.9	60.1	0.2	0.0	0.7	60.6	59.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1934	6.1	12.1	56.7	25.0	0.2	56.7	0.0	0.1	0.1	57.1	56.4
Korea	1100	4.2	5.0	83.4	7.3	0.2	83.4	0.0	0.0	0.2	85.0	82.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	951	7.2	7.0	70.0	9.7	6.1	70.0	0.0	1.0	5.1	71.8	68.3
Lithuania	931	2.2	7.4	73.7	2.8	14.0	73.7	0.1	1.8	12.1	73.8	73.6
Netherlands	774	7.2	29.5	40.1	19.2	4.1	40.1	0.0	0.1	4.0	41.3	39.2
New Zealand	1185	9.4	31.9	36.5	21.0	1.1	36.5	0.1	0.1	0.9	32.2	40.5
Norway	914	7.9	28.5	28.1	31.5	3.9	28.1	0.0	0.4	3.5	26.4	29.7
Philippines	2198	10.8	15.3	49.7	23.5	0.7	49.7	0.0	0.3	0.4	49.8	49.7
Portugal	1260	19.8	15.9	45.3	16.6	2.4	45.3	0.0	1.0	1.4	45.5	45.1
Romania	1399	19.3	18.5	42.6	13.0	6.6	42.6	1.4	1.0	4.2	44.7	40.4
Russian Federation	1563	9.5	19.3	53.3	10.9	7.1	53.3	0.3	1.5	5.3	54.2	52.3
Scotland	1071	12.2	31.7	31.5	22.2	2.4	31.5	0.0	0.0	2.4	27.5	35.4
Singapore	1333	11.4	7.8	60.3	20.0	0.5	60.3	0.0	0.0	0.5	62.6	58.1
Slovak Republic	1345	33.4	22.9	16.2	24.1	3.4	16.2	0.1	0.5	2.9	14.8	17.5
Slovenia	1081	8.6	13.8	40.0	34.3	3.2	40.0	0.3	0.1	2.8	38.3	41.7
South Africa	1976	12.6	26.7	26.4	29.0	5.3	26.4	0.2	1.0	4.1	26.3	27.0
Spain	1400	14.6	20.3	43.3	17.8	4.0	43.3	0.0	1.0	3.0	43.6	43.1
Sweden	1084	16.2	30.7	24.0	27.3	1.8	24.0	0.0	0.3	1.5	20.9	26.9
Switzerland	1514	15.2	21.7	45.2	14.8	3.0	45.2	0.3	0.5	2.2	45.7	44.6
Thailand	2198	13.3	10.0	52.8	23.3	0.6	52.8	0.0	0.1	0.6	53.8	51.1
United States	1445	12.3	17.6	52.1	17.2	0.8	52.1	0.0	0.1	0.7	54.2	50.0
INTERNATIONAL AVG	.	12.8	18.1	46.0	18.7	4.3	46.0	0.1	0.6	3.6	46.2	46.0

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: G12 KEY: D  
 Identify a nonrenewable natural resource. (Environment and other content)  
 Difficulty: 577

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2111	9.9	13.6	21.4	53.8	1.3	53.8	0.0	0.4	1.0	52.1	55.6
Austria	1130	14.8	9.3	31.6	41.3	2.9	41.3	0.6	0.3	2.0	38.4	43.5
Belgium (Fl)	1037	13.4	7.6	32.0	44.9	2.1	44.9	0.0	0.2	1.8	42.4	47.2
Belgium (Fr)	862	11.0	13.1	32.5	35.4	8.0	35.4	0.7	1.0	6.3	32.1	38.9
Bulgaria	635	7.2	6.3	16.9	64.7	4.9	64.7	1.3	0.7	2.9	64.2	65.2
Canada	3048	9.9	8.9	18.1	62.3	0.9	62.3	0.1	0.1	0.7	59.6	65.4
Colombia	1005	10.6	12.8	19.4	51.4	5.8	51.4	0.2	3.7	1.9	53.0	50.0
Cyprus	1145	12.9	15.1	21.2	47.5	3.2	47.5	0.5	0.8	1.9	50.7	44.4
Czech Republic	1240	8.3	5.7	43.0	40.9	2.1	40.9	0.7	0.2	1.1	35.5	46.2
Denmark	823	16.4	11.3	13.9	52.3	6.2	52.3	1.0	1.8	3.3	52.5	51.2
England	678	11.8	6.8	17.1	63.1	1.1	63.1	0.0	0.1	1.0	57.4	68.2
France	1135	12.3	16.5	34.0	33.9	3.3	33.9	1.2	0.3	1.8	30.8	37.4
Germany	1099	13.5	8.7	30.2	41.8	5.8	41.8	1.9	1.0	3.0	40.1	44.1
Greece	1490	13.8	16.9	29.9	36.1	3.3	36.1	0.9	0.8	1.7	33.6	38.3
Hong Kong	1275	7.5	4.5	19.8	67.7	0.5	67.7	0.0	0.1	0.4	64.9	69.9
Hungary	1147	9.3	19.1	24.9	40.8	5.9	40.8	0.0	0.9	5.1	34.5	47.4
Iceland	735	14.4	16.2	13.8	53.9	1.7	53.9	0.6	0.6	0.4	46.3	60.2
Iran, Islamic Rep.	1410	12.0	11.4	27.7	46.2	2.8	46.2	0.2	1.2	1.4	46.0	46.5
Ireland	1157	7.8	5.8	11.7	73.6	1.2	73.6	0.8	0.0	0.4	68.9	79.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1934	10.2	10.9	46.3	31.9	0.7	31.9	0.6	0.1	0.1	26.3	37.2
Korea	1100	3.5	4.5	18.1	73.7	0.2	73.7	0.0	0.0	0.2	59.3	84.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	950	8.2	11.0	45.0	30.7	5.1	30.7	0.0	1.2	3.9	26.6	34.8
Lithuania	932	16.4	11.8	20.1	36.5	15.2	36.5	0.5	2.1	12.5	31.7	41.5
Netherlands	774	7.3	11.1	35.6	43.9	2.0	43.9	0.3	0.1	1.6	38.2	49.0
New Zealand	1185	12.6	11.5	23.0	51.9	1.0	51.9	0.3	0.2	0.5	45.9	57.6
Norway	914	9.3	16.3	21.0	49.3	4.1	49.3	0.0	0.7	3.4	50.8	48.0
Philippines	2198	16.2	20.7	26.5	35.9	0.7	35.9	0.0	0.3	0.4	35.2	36.9
Portugal	1260	8.2	9.4	18.1	60.8	3.5	60.8	0.0	1.1	2.4	67.4	53.5
Romania	1396	15.3	11.7	18.9	43.6	10.4	43.6	6.4	1.1	2.9	42.8	44.4
Russian Federation	1563	10.1	11.4	22.2	48.9	7.4	48.9	0.6	1.9	4.9	47.5	50.4
Scotland	1071	8.2	11.9	18.7	60.0	1.2	60.0	0.4	0.0	0.9	58.4	61.2
Singapore	1333	11.5	9.1	18.8	60.3	0.3	60.3	0.0	0.0	0.3	56.9	63.4
Slovak Republic	1345	5.4	4.9	24.7	62.7	2.4	62.7	1.5	0.6	0.4	60.6	64.7
Slovenia	1080	13.7	9.6	30.3	43.0	3.4	43.0	2.2	0.1	1.1	40.0	46.0
South Africa	1976	15.5	28.6	18.2	33.9	3.8	33.9	0.4	1.1	2.3	28.6	40.7
Spain	1400	8.6	5.5	28.3	53.4	4.1	53.4	0.0	1.1	3.0	51.6	55.1
Sweden	1084	14.3	14.4	28.9	41.0	1.4	41.0	0.2	0.4	0.8	42.2	40.1
Switzerland	1514	16.3	11.0	30.7	39.9	2.1	39.9	0.6	0.5	1.0	39.3	40.4
Thailand	2198	16.1	5.2	19.6	58.4	0.8	58.4	0.0	0.1	0.7	58.0	59.0
United States	1445	9.2	9.1	18.4	62.6	0.7	62.6	0.0	0.1	0.6	56.3	68.9
INTERNATIONAL AVG	.	11.3	11.2	24.8	49.3	3.3	49.3	0.6	0.7	2.0	46.7	51.9

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: H01 KEY: A  
 Identify the functions of blood. (Life Science)  
 Difficulty: 469

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2093	72.3	9.9	9.4	7.3	1.1	72.3	0.0	0.2	0.9	73.7	70.7
Austria	1122	82.4	7.5	4.6	3.2	2.3	82.4	0.3	0.0	1.9	84.4	80.0
Belgium (Fl)	1020	70.1	15.7	8.5	4.9	0.8	70.1	0.0	0.0	0.8	69.7	70.5
Belgium (Fr)	862	59.0	16.5	11.1	7.9	5.6	59.0	0.9	0.0	4.7	59.6	57.5
Bulgaria	636	69.1	8.1	12.2	7.3	3.2	69.1	0.4	0.0	2.8	68.9	69.4
Canada	3079	73.2	9.8	9.4	7.0	0.6	73.2	0.2	0.0	0.3	74.0	72.1
Colombia	998	55.7	12.8	13.3	10.4	7.7	55.7	0.9	1.8	5.0	54.6	56.5
Cyprus	.	.	.	.	.	.	.	.	.	.	.	.
Czech Republic	1236	81.0	9.6	3.7	3.3	2.4	81.0	1.8	0.0	0.6	80.2	81.8
Denmark	700	66.9	13.4	9.1	5.7	4.9	66.9	1.4	0.5	3.0	65.5	69.0
England	668	68.8	13.7	10.1	6.1	1.3	68.8	0.0	0.0	1.3	67.2	70.1
France	1128	57.1	19.8	13.4	6.8	2.9	57.1	1.0	0.1	1.7	57.3	57.0
Germany	1093	79.8	5.5	3.5	5.0	6.3	79.8	4.1	0.3	1.9	82.7	76.4
Greece	1496	56.3	20.9	13.1	7.2	2.4	56.3	1.4	0.0	1.0	54.9	57.5
Hong Kong	1282	78.9	6.6	7.6	5.5	1.4	78.9	0.1	0.0	1.3	77.0	80.2
Hungary	1141	70.3	5.8	9.8	4.6	9.6	70.3	0.0	0.2	9.4	72.6	68.0
Iceland	736	79.4	11.0	6.2	3.2	0.3	79.4	0.1	0.0	0.2	79.8	79.0
Iran, Islamic Rep.	1381	47.4	23.0	16.3	12.1	1.2	47.4	0.5	0.0	0.7	43.5	50.2
Ireland	1176	62.7	14.3	14.6	8.1	0.3	62.7	0.0	0.0	0.3	62.1	63.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1928	69.8	11.0	9.8	8.7	0.6	69.8	0.6	0.0	0.0	70.0	69.5
Korea	1075	63.7	14.7	9.9	11.7	0.1	63.7	0.0	0.0	0.1	57.9	68.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	949	48.8	12.6	18.5	13.3	6.7	48.8	0.0	0.4	6.4	48.5	49.1
Lithuania	948	49.4	14.0	12.2	11.0	13.3	49.4	0.4	0.3	12.7	53.5	45.4
Netherlands	789	71.9	13.9	3.8	9.6	0.8	71.9	0.0	0.0	0.8	71.8	71.9
New Zealand	1179	66.6	10.8	13.3	8.7	0.6	66.6	0.3	0.0	0.3	66.3	66.8
Norway	918	61.9	11.7	12.0	9.2	5.2	61.9	0.0	0.1	5.1	60.3	63.5
Philippines	2204	50.5	16.8	16.9	14.1	1.7	50.5	0.0	0.0	1.7	52.0	48.9
Portugal	1241	56.8	21.3	8.8	11.8	1.3	56.8	0.0	0.1	1.1	59.4	54.2
Romania	1398	60.1	14.9	8.0	7.4	9.5	60.1	5.9	0.1	3.5	59.1	61.5
Russian Federation	1530	55.1	13.6	9.8	13.7	7.8	55.1	0.7	0.1	7.0	56.2	54.0
Scotland	1077	63.9	12.6	13.5	8.8	1.1	63.9	0.2	0.0	0.9	62.4	65.4
Singapore	1369	57.7	20.9	14.0	6.7	0.8	57.7	0.0	0.0	0.8	56.3	59.0
Slovak Republic	1338	75.4	8.2	6.6	7.7	2.2	75.4	1.3	0.0	0.9	75.1	75.7
Slovenia	1069	69.5	15.9	5.9	5.4	3.3	69.5	2.1	0.0	1.2	68.4	70.7
South Africa	1965	38.6	24.9	17.3	15.4	3.9	38.6	0.5	0.1	3.3	38.3	39.0
Spain	1387	56.7	17.7	16.7	6.0	2.8	56.7	0.0	0.1	2.8	57.1	56.4
Sweden	1056	80.0	8.3	8.0	3.3	0.4	80.0	0.3	0.0	0.1	81.5	78.7
Switzerland	1540	72.5	9.6	8.5	6.8	2.6	72.5	1.4	0.2	1.0	71.3	73.6
Thailand	2158	88.9	4.6	2.4	3.5	0.5	88.9	0.0	0.0	0.5	88.9	88.9
United States	1449	76.1	9.8	7.9	5.9	0.3	76.1	0.0	0.0	0.3	74.3	77.8
INTERNATIONAL AVG	.	65.7	13.1	10.3	7.8	3.1	65.7	0.7	0.1	2.3	65.5	65.8

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: H02 KEY: D  
 Identify the role of vitamins. (Life Science)  
 Difficulty: 392

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	2093	2.7	2.6	16.3	77.5	0.9	77.5	0.0	0.2	0.7	78.1	76.8
Austria	1122	2.3	9.7	6.6	80.4	1.0	80.4	0.2	0.0	0.8	80.9	79.4
Belgium (Fl)	1020	1.1	3.1	4.9	90.5	0.4	90.5	0.0	0.0	0.4	89.5	91.5
Belgium (Fr)	862	4.1	17.4	12.4	60.3	5.8	60.3	1.2	0.1	4.4	62.6	58.7
Bulgaria	636	3.4	3.0	3.7	88.2	1.7	88.2	0.4	0.0	1.3	87.5	89.0
Canada	3079	1.6	3.2	22.1	72.5	0.5	72.5	0.1	0.0	0.4	75.1	69.6
Colombia	998	4.9	3.5	10.4	75.8	5.5	75.8	0.2	1.9	3.4	78.7	72.9
Cyprus	1067	6.4	15.3	17.1	59.5	1.7	59.5	0.3	0.0	1.4	59.7	59.6
Czech Republic	1236	3.8	9.7	7.2	78.5	0.8	78.5	0.1	0.1	0.5	81.3	75.6
Denmark	700	1.8	6.8	19.9	67.1	4.4	67.1	1.9	0.5	2.0	66.8	68.1
England	668	5.5	2.3	18.2	73.3	0.7	73.3	0.0	0.0	0.7	74.6	72.2
France	1128	5.0	15.6	12.2	63.6	3.6	63.6	1.5	0.1	1.9	61.3	66.9
Germany	1093	3.1	6.2	8.4	78.2	4.2	78.2	2.0	0.4	1.7	80.9	75.1
Greece	1496	2.9	21.7	11.6	63.0	0.8	63.0	0.3	0.1	0.5	66.1	60.2
Hong Kong	1282	10.3	6.7	17.4	63.9	1.7	63.9	0.1	0.0	1.6	62.6	65.1
Hungary	1141	0.9	1.4	1.0	94.8	1.9	94.8	0.0	0.3	1.6	95.6	93.9
Iceland	736	4.1	3.9	12.2	78.6	1.1	78.6	0.1	0.0	1.0	83.7	73.9
Iran, Islamic Rep.	1381	3.1	8.3	6.9	80.9	0.8	80.9	0.0	0.1	0.8	77.8	83.1
Ireland	1176	3.9	2.2	12.2	81.5	0.3	81.5	0.0	0.0	0.3	84.2	78.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1928	4.8	17.0	24.0	54.0	0.1	54.0	0.0	0.0	0.1	54.5	53.6
Korea	1075	1.3	3.7	4.5	90.4	0.1	90.4	0.0	0.0	0.1	91.4	89.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	949	3.0	4.2	5.1	84.9	2.8	84.9	0.0	0.5	2.3	86.2	83.4
Lithuania	948	6.0	9.0	8.3	70.6	6.1	70.6	0.1	0.5	5.5	77.9	63.4
Netherlands	789	1.7	3.8	6.3	87.9	0.3	87.9	0.0	0.1	0.1	90.3	85.2
New Zealand	1179	3.1	3.1	20.2	73.2	0.4	73.2	0.3	0.0	0.1	73.9	72.5
Norway	918	1.3	2.7	5.6	89.6	0.8	89.6	0.0	0.1	0.7	93.4	85.8
Philippines	2204	4.8	5.4	16.6	71.4	1.8	71.4	0.0	0.0	1.8	73.6	69.0
Portugal	1241	3.4	10.1	9.5	75.8	1.2	75.8	0.0	0.1	1.1	75.7	75.9
Romania	1399	7.8	5.1	14.6	67.2	5.3	67.2	2.7	0.2	2.3	68.0	66.3
Russian Federation	1530	2.3	3.3	3.1	86.8	4.4	86.8	0.4	0.1	3.9	87.5	86.2
Scotland	1077	3.7	3.1	19.8	72.5	0.9	72.5	0.2	0.0	0.7	72.2	73.0
Singapore	1369	2.1	3.9	12.0	81.6	0.4	81.6	0.0	0.1	0.3	82.0	81.3
Slovak Republic	1338	3.5	4.5	5.4	85.6	0.9	85.6	0.2	0.0	0.7	86.1	85.1
Slovenia	1071	3.6	4.0	4.2	87.1	1.1	87.1	0.8	0.0	0.4	86.5	87.7
South Africa	1965	10.0	22.5	31.9	31.9	3.7	31.9	0.4	1.0	2.3	32.3	31.4
Spain	1387	5.4	5.7	11.4	76.7	0.7	76.7	0.0	0.1	0.6	76.1	77.1
Sweden	1056	1.0	6.7	7.0	85.2	0.2	85.2	0.1	0.0	0.1	87.2	83.2
Switzerland	1540	1.6	13.3	9.9	72.7	2.5	72.7	1.3	0.2	0.9	70.4	74.8
Thailand	2158	2.5	6.1	13.9	77.1	0.3	77.1	0.0	0.1	0.2	77.3	77.1
United States	1449	3.3	3.0	22.3	71.1	0.2	71.1	0.0	0.0	0.2	73.4	68.9
INTERNATIONAL AVG	.	3.7	7.1	11.9	75.5	1.8	75.5	0.4	0.2	1.2	76.6	74.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: H03 KEY: A  
 Select explanation for moonlight. (Earth Science)  
 Difficulty: 393

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2093	79.1	3.2	1.8	15.1	0.9	79.1	0.0	0.2	0.7	75.9	82.5
Austria	1122	83.2	3.0	1.0	11.6	1.1	83.2	0.2	0.0	0.9	80.6	86.3
Belgium (Fl)	1020	84.3	4.0	1.2	10.3	0.2	84.3	0.0	0.0	0.2	80.9	87.7
Belgium (Fr)	862	59.2	4.3	5.1	23.8	7.6	59.2	0.2	0.1	7.3	54.2	65.2
Bulgaria	636	88.3	1.8	1.7	6.4	1.7	88.3	0.6	0.0	1.1	88.8	87.8
Canada	3079	77.6	4.4	2.8	14.5	0.6	77.6	0.1	0.0	0.5	71.1	83.9
Colombia	998	57.6	10.3	7.4	17.5	7.1	57.6	0.3	2.0	4.8	50.1	65.3
Cyprus	1067	64.9	13.6	3.6	16.0	1.9	64.9	0.2	0.0	1.6	62.0	67.6
Czech Republic	1236	88.7	3.0	1.1	6.7	0.6	88.7	0.1	0.1	0.3	84.3	93.2
Denmark	700	68.3	9.4	3.5	14.7	4.0	68.3	0.7	0.7	2.7	61.1	75.0
England	668	75.9	4.2	1.9	17.6	0.5	75.9	0.0	0.0	0.5	69.1	81.7
France	1128	59.0	5.0	4.6	27.7	3.6	59.0	1.0	0.1	2.6	52.4	66.3
Germany	1093	84.9	1.7	1.3	9.5	2.6	84.9	1.0	0.4	1.2	86.0	84.5
Greece	1496	78.7	9.2	1.9	8.7	1.4	78.7	0.2	0.1	1.1	78.0	79.3
Hong Kong	1282	93.6	2.1	1.2	1.7	1.4	93.6	0.1	0.0	1.4	92.2	94.6
Hungary	1141	71.8	2.7	4.5	17.8	3.2	71.8	0.0	0.3	2.8	66.1	77.5
Iceland	736	74.3	7.2	1.2	15.8	1.5	74.3	0.3	0.2	1.0	67.9	80.3
Iran, Islamic Rep.	1381	79.1	10.1	2.7	6.8	1.3	79.1	0.0	0.1	1.3	74.0	82.8
Ireland	1176	75.6	4.6	1.5	18.1	0.2	75.6	0.0	0.0	0.2	71.5	80.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1928	87.5	1.3	0.7	10.4	0.1	87.5	0.0	0.0	0.1	84.1	90.8
Korea	1075	80.8	3.5	4.3	11.2	0.2	80.8	0.0	0.0	0.2	73.7	86.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	949	63.1	6.3	4.9	21.6	4.1	63.1	0.0	0.5	3.6	60.0	66.3
Lithuania	948	56.0	7.4	13.7	14.6	8.3	56.0	0.5	0.5	7.3	52.0	59.9
Netherlands	789	85.0	3.4	1.0	9.7	0.9	85.0	0.0	0.1	0.8	82.5	87.8
New Zealand	1179	74.4	5.3	2.2	17.7	0.4	74.4	0.3	0.0	0.1	65.4	82.3
Norway	918	91.4	1.2	1.1	5.7	0.6	91.4	0.0	0.1	0.5	89.1	93.7
Philippines	2204	75.5	8.7	7.3	6.5	2.0	75.5	0.0	0.0	2.0	75.1	76.0
Portugal	1241	67.0	6.1	3.1	22.4	1.4	67.0	0.0	0.1	1.3	62.2	72.0
Romania	1399	71.8	8.6	2.8	12.6	4.2	71.8	1.2	0.2	2.8	68.3	76.0
Russian Federation	1530	71.4	4.8	2.1	16.5	5.1	71.4	0.0	0.1	5.0	66.8	75.8
Scotland	1077	64.9	8.5	2.7	23.4	0.5	64.9	0.0	0.0	0.5	59.5	70.4
Singapore	1369	88.5	2.2	1.1	8.0	0.3	88.5	0.0	0.1	0.2	86.7	90.4
Slovak Republic	1338	87.9	2.4	1.0	8.3	0.5	87.9	0.0	0.0	0.5	85.8	90.2
Slovenia	1071	75.3	3.4	0.9	19.0	1.4	75.3	0.6	0.0	0.8	69.7	81.3
South Africa	1965	54.2	16.1	13.3	11.9	4.5	54.2	0.4	1.1	3.0	55.4	52.9
Spain	1387	80.6	2.8	2.2	13.3	1.1	80.6	0.0	0.1	1.0	78.4	82.7
Sweden	1056	88.5	3.0	1.0	7.3	0.2	88.5	0.0	0.0	0.2	88.2	89.0
Switzerland	1540	84.6	1.9	2.0	9.6	1.9	84.6	0.8	0.2	0.8	80.7	88.3
Thailand	2158	83.0	5.0	5.8	5.8	0.4	83.0	0.0	0.1	0.3	81.1	85.6
United States	1449	83.8	5.2	2.4	8.1	0.5	83.8	0.0	0.0	0.5	82.5	85.0
INTERNATIONAL AVG	.	76.5	5.3	3.1	13.1	2.0	76.5	0.2	0.2	1.6	72.8	80.1

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: H04 KEY: A  
 Identify ground layer containing the most organic material. (Earth Science)  
 Difficulty: 581

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2093	53.7	31.4	5.1	9.1	0.7	53.7	0.0	0.2	0.5	51.0	56.6
Austria	1122	64.3	25.8	2.5	6.0	1.4	64.3	0.2	0.0	1.2	58.7	69.4
Belgium (Fl)	1020	68.4	25.1	3.6	2.7	0.2	68.4	0.0	0.0	0.2	70.2	66.7
Belgium (Fr)	862	49.7	26.0	9.1	8.8	6.5	49.7	0.2	0.1	6.2	46.9	52.3
Bulgaria	636	66.2	17.5	4.5	5.5	6.2	66.2	0.9	0.0	5.3	65.2	67.4
Canada	3079	43.1	40.1	5.7	10.4	0.7	43.1	0.1	0.0	0.6	39.1	46.8
Colombia	998	31.5	42.2	3.4	18.4	4.5	31.5	0.2	2.1	2.2	24.9	37.8
Cyprus	1067	45.5	25.8	5.9	20.0	2.9	45.5	0.3	0.0	2.6	41.4	49.2
Czech Republic	1234	70.5	20.1	1.3	7.3	0.9	70.5	0.3	0.2	0.4	66.7	74.4
Denmark	700	39.6	30.8	8.2	13.6	7.8	39.6	0.2	0.7	6.9	38.2	41.2
England	668	39.8	37.0	5.0	17.7	0.5	39.8	0.0	0.0	0.5	39.8	39.8
France	1128	39.5	30.5	6.7	20.4	2.9	39.5	0.4	0.1	2.5	35.5	43.1
Germany	1093	54.7	24.1	4.7	10.9	5.6	54.7	0.8	0.4	4.5	50.5	59.6
Greece	1496	38.7	36.1	3.4	19.2	2.6	38.7	0.1	0.2	2.4	37.8	39.6
Hong Kong	1280	15.3	27.8	15.7	41.1	0.1	15.3	0.1	0.0	0.1	12.3	17.7
Hungary	1141	52.7	30.4	3.3	8.4	5.4	52.7	0.0	0.3	5.0	48.1	57.1
Iceland	736	63.8	25.7	2.5	5.9	2.1	63.8	0.0	0.2	1.9	59.9	67.5
Iran, Islamic Rep.	1381	38.7	30.0	5.3	24.6	1.4	38.7	0.2	0.1	1.2	34.0	42.1
Ireland	1176	45.4	32.4	5.6	16.1	0.4	45.4	0.1	0.0	0.3	40.3	51.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1928	40.4	38.4	12.0	8.9	0.2	40.4	0.0	0.0	0.2	41.4	39.5
Korea	1075	41.4	32.7	6.6	19.2	0.2	41.4	0.0	0.0	0.2	37.1	44.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	943	62.1	28.0	2.4	4.1	3.3	62.1	0.0	0.5	2.8	57.7	66.9
Lithuania	948	65.5	22.0	4.2	3.4	5.0	65.5	0.3	0.6	4.1	63.6	67.2
Netherlands	789	45.2	35.0	9.1	9.0	1.7	45.2	0.0	0.1	1.6	42.2	48.3
New Zealand	1179	38.0	43.5	7.9	10.5	0.1	38.0	0.0	0.0	0.1	34.4	41.2
Norway	919	48.7	35.0	4.8	9.8	1.7	48.7	0.0	0.1	1.6	44.5	52.8
Philippines	2204	40.9	37.6	5.7	15.5	0.3	40.9	0.0	0.0	0.3	42.4	39.3
Portugal	1241	40.6	35.6	5.4	16.6	1.9	40.6	0.0	0.1	1.7	37.3	44.1
Romania	1399	55.9	24.7	4.1	10.6	4.7	55.9	2.2	0.3	2.3	53.5	58.7
Russian Federation	1530	68.9	16.0	2.4	10.8	1.8	68.9	0.4	0.2	1.2	66.9	70.9
Scotland	1077	39.1	35.9	7.3	16.8	0.8	39.1	0.1	0.0	0.7	35.5	43.1
Singapore	1369	31.7	31.1	10.9	25.5	0.8	31.7	0.0	0.1	0.7	29.5	33.8
Slovak Republic	1338	54.9	30.5	2.8	10.3	1.5	54.9	0.3	0.0	1.1	48.0	62.6
Slovenia	1071	71.8	21.9	1.3	3.2	1.9	71.8	0.6	0.0	1.2	69.7	74.1
South Africa	1965	28.1	38.6	9.2	19.8	4.3	28.1	0.7	1.1	2.5	24.3	32.5
Spain	1387	49.9	32.0	4.0	13.2	0.8	49.9	0.0	0.1	0.7	44.2	55.2
Sweden	1055	44.6	25.2	7.5	21.7	1.0	44.6	0.0	0.0	1.0	42.7	46.6
Switzerland	1540	54.3	27.0	5.0	10.6	3.2	54.3	0.3	0.2	2.6	50.4	58.1
Thailand	2158	57.9	30.3	2.1	9.4	0.3	57.9	0.0	0.1	0.2	56.4	60.5
United States	1449	34.3	41.5	7.1	16.9	0.2	34.3	0.0	0.0	0.2	25.3	43.1
INTERNATIONAL AVG	.	48.4	30.5	5.6	13.3	2.2	48.4	0.2	0.2	1.8	45.2	51.6

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: H05 KEY: B  
 Identify source of energy stored in food. (Physics)  
 Difficulty: 761

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2093	3.8	19.8	61.2	13.9	1.3	19.8	0.0	0.3	0.9	18.9	20.8
Austria	1122	2.1	20.6	59.4	15.5	2.4	20.6	0.8	0.0	1.6	20.4	21.1
Belgium (Fl)	1020	5.9	8.4	63.2	21.6	0.9	8.4	0.0	0.0	0.9	9.2	7.6
Belgium (Fr)	862	6.3	8.0	69.4	13.8	2.5	8.0	0.2	0.1	2.2	7.9	8.4
Bulgaria	636	3.1	22.7	55.0	15.0	4.1	22.7	2.1	0.0	2.0	21.3	24.3
Canada	3079	3.7	21.1	56.4	18.2	0.6	21.1	0.1	0.0	0.4	19.1	23.1
Colombia	998	5.1	16.9	45.8	28.0	4.2	16.9	0.3	2.3	1.5	10.4	23.4
Cyprus	1067	10.3	8.7	54.6	23.5	2.7	8.7	0.3	0.2	2.3	7.4	9.6
Czech Republic	1234	1.4	15.8	43.0	38.1	1.7	15.8	0.5	0.3	0.9	16.8	14.9
Denmark	700	2.3	12.6	71.0	10.8	3.3	12.6	1.3	0.7	1.3	11.9	13.3
England	668	4.2	30.7	54.4	10.1	0.5	30.7	0.0	0.0	0.5	29.8	31.5
France	1128	4.8	7.0	66.9	17.7	3.7	7.0	1.6	0.3	1.8	6.7	7.7
Germany	1093	0.8	22.7	59.3	11.5	5.6	22.7	3.7	0.4	1.5	20.2	25.2
Greece	1496	6.0	8.1	65.9	18.7	1.3	8.1	0.6	0.2	0.5	7.2	8.8
Hong Kong	1280	10.6	42.0	34.0	13.2	0.3	42.0	0.1	0.0	0.2	41.7	42.3
Hungary	1141	1.6	11.9	73.5	8.9	4.0	11.9	0.0	0.3	3.7	12.9	10.9
Iceland	736	1.4	10.0	63.4	23.9	1.3	10.0	0.3	0.2	0.8	8.9	10.9
Iran, Islamic Rep.	1381	4.4	47.6	44.8	2.4	0.7	47.6	0.3	0.1	0.3	51.0	45.1
Ireland	1176	1.8	32.0	54.0	11.8	0.3	32.0	0.2	0.0	0.2	35.1	28.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1928	9.5	51.0	13.2	25.6	0.7	51.0	0.6	0.0	0.1	53.8	48.4
Korea	1075	4.1	43.9	26.1	25.9	0.1	43.9	0.0	0.0	0.1	45.2	42.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	943	4.0	22.4	53.5	17.3	2.8	22.4	0.0	0.6	2.2	26.1	18.1
Lithuania	948	3.5	12.0	54.3	24.9	5.2	12.0	0.9	0.6	3.8	13.8	10.3
Netherlands	789	2.9	13.1	73.4	9.4	1.1	13.1	0.0	0.1	1.0	11.8	14.5
New Zealand	1179	3.7	11.6	69.8	14.3	0.7	11.6	0.1	0.0	0.5	9.2	13.6
Norway	919	2.8	13.9	55.3	25.9	2.0	13.9	0.0	0.1	1.9	12.7	15.1
Philippines	2204	7.5	44.8	33.8	13.7	0.0	44.8	0.0	0.0	0.0	46.9	42.6
Portugal	1240	6.6	8.4	56.1	28.0	1.0	8.4	0.0	0.1	0.9	6.9	9.9
Romania	1397	8.4	12.5	60.0	14.4	4.8	12.5	2.7	0.3	1.8	12.2	12.8
Russian Federation	1529	6.2	20.7	45.2	25.4	2.5	20.7	0.7	0.2	1.6	23.2	18.3
Scotland	1077	4.1	29.2	58.3	7.6	0.9	29.2	0.1	0.1	0.7	31.2	26.8
Singapore	1369	7.2	73.8	14.0	4.4	0.5	73.8	0.0	0.1	0.5	73.0	74.6
Slovak Republic	1338	2.1	16.0	45.7	35.1	1.2	16.0	0.5	0.1	0.7	16.1	15.8
Slovenia	1070	4.4	17.9	44.0	31.2	2.4	17.9	1.4	0.0	1.0	17.1	18.8
South Africa	1965	8.0	14.3	48.4	26.4	2.9	14.3	0.5	1.1	1.4	15.1	13.3
Spain	1387	4.8	13.1	63.4	16.9	1.8	13.1	0.0	0.1	1.6	13.7	12.6
Sweden	1055	6.7	27.3	45.2	20.1	0.7	27.3	0.2	0.1	0.4	30.1	24.9
Switzerland	1540	2.1	16.4	67.6	11.9	2.0	16.4	1.1	0.2	0.7	15.6	17.2
Thailand	2158	5.9	19.2	57.4	17.1	0.5	19.2	0.0	0.1	0.4	20.1	17.6
United States	1449	5.6	22.5	56.5	14.6	0.8	22.5	0.2	0.0	0.5	22.2	22.8
INTERNATIONAL AVG	.	4.7	21.8	53.4	18.2	1.9	21.8	0.5	0.2	1.1	21.8	21.7

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: H06 KEY: A  
 Know if wood-burning reaction absorbs or releases energy. (Chemistry)  
 Difficulty: 577

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	2093	46.2	16.7	8.5	27.9	0.7	46.2	0.0	0.3	0.4	41.1	51.8
Austria	1122	55.9	11.1	7.7	23.5	1.9	55.9	0.2	0.0	1.7	45.1	67.5
Belgium (Fl)	1020	49.7	14.4	11.8	22.4	1.6	49.7	0.0	0.0	1.6	44.5	55.0
Belgium (Fr)	862	37.0	17.2	11.9	28.1	5.8	37.0	0.3	0.1	5.4	31.1	42.5
Bulgaria	636	54.4	12.9	14.1	15.4	3.2	54.4	0.0	0.0	3.2	52.9	56.0
Canada	3079	51.7	13.3	9.8	24.8	0.5	51.7	0.0	0.0	0.4	44.8	58.3
Colombia	998	23.0	10.0	20.1	40.6	6.2	23.0	0.0	2.7	3.5	14.6	31.6
Cyprus	1067	40.5	17.2	17.6	22.9	1.9	40.5	0.1	0.2	1.7	38.2	42.7
Czech Republic	1234	37.9	30.7	9.4	20.4	1.6	37.9	0.1	0.3	1.2	33.6	42.2
Denmark	700	14.4	41.0	9.4	29.6	5.5	14.4	0.1	0.8	4.5	8.1	21.0
England	668	52.0	15.6	5.3	26.6	0.4	52.0	0.0	0.0	0.4	43.8	59.0
France	1128	39.8	14.2	14.8	27.2	3.9	39.8	0.3	0.3	3.4	32.3	46.8
Germany	1093	54.5	9.4	12.7	16.2	7.3	54.5	0.5	0.5	6.3	46.0	63.5
Greece	1496	44.2	16.3	9.9	27.3	2.3	44.2	0.0	0.2	2.2	40.5	47.7
Hong Kong	1283	59.3	8.2	12.8	18.9	0.7	59.3	0.1	0.0	0.6	51.7	65.4
Hungary	1141	63.8	10.0	3.4	19.9	2.9	63.8	0.0	0.5	2.4	57.5	69.8
Iceland	736	32.7	23.3	15.8	25.8	2.4	32.7	0.4	0.2	1.9	28.2	37.0
Iran, Islamic Rep.	1381	61.2	7.8	9.3	20.2	1.5	61.2	0.0	0.1	1.4	60.0	62.0
Ireland	1176	52.1	18.1	7.9	21.5	0.3	52.1	0.3	0.0	0.1	47.8	56.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1928	55.2	10.5	15.3	18.9	0.1	55.2	0.0	0.0	0.1	51.7	58.4
Korea	1075	55.6	25.3	4.3	14.1	0.7	55.6	0.0	0.1	0.6	50.3	59.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	949	25.9	12.1	11.9	40.9	9.3	25.9	0.0	0.7	8.6	23.6	28.2
Lithuania	948	25.5	5.4	8.7	43.3	17.1	25.5	0.0	0.6	16.5	19.9	31.0
Netherlands	789	43.8	14.3	14.9	24.7	2.4	43.8	0.0	0.1	2.2	36.6	51.6
New Zealand	1179	40.5	13.7	10.3	35.1	0.4	40.5	0.1	0.0	0.4	31.4	48.5
Norway	919	34.3	32.0	9.8	21.6	2.4	34.3	0.0	0.2	2.1	28.2	40.4
Philippines	2204	26.0	15.5	5.9	52.1	0.5	26.0	0.0	0.0	0.5	24.5	27.7
Portugal	1241	32.1	15.7	15.2	35.3	1.6	32.1	0.0	0.1	1.5	25.0	39.6
Romania	1400	49.5	6.5	10.4	29.3	4.3	49.5	0.9	0.4	3.0	43.9	55.9
Russian Federation	1530	35.1	10.4	10.8	35.8	7.9	35.1	0.0	0.2	7.6	31.0	39.1
Scotland	1077	49.4	16.5	8.7	25.0	0.3	49.4	0.0	0.1	0.2	41.0	57.8
Singapore	1369	65.2	11.4	7.5	15.3	0.7	65.2	0.0	0.1	0.6	64.5	66.0
Slovak Republic	1338	44.0	15.2	11.4	26.9	2.5	44.0	0.0	0.2	2.3	35.8	53.0
Slovenia	1071	53.4	31.0	3.1	10.9	1.6	53.4	0.6	0.0	1.0	51.7	55.3
South Africa	1965	18.5	28.8	10.7	38.5	3.6	18.5	0.3	1.1	2.2	16.5	21.1
Spain	1387	51.0	13.8	13.1	21.2	0.9	51.0	0.0	0.1	0.7	41.5	59.9
Sweden	1055	33.7	23.2	11.5	30.1	1.6	33.7	0.1	0.1	1.4	25.9	41.3
Switzerland	1540	41.4	14.3	12.8	28.7	2.8	41.4	0.1	0.2	2.5	32.3	50.0
Thailand	2158	43.7	11.7	5.5	38.1	1.0	43.7	0.0	0.1	0.9	40.8	47.3
United States	1449	55.3	14.1	8.5	21.0	1.0	55.3	0.0	0.0	1.0	52.9	57.6
INTERNATIONAL AVG	.	43.7	16.2	10.6	26.7	2.8	43.7	0.1	0.3	2.5	38.3	49.1

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent



Item: I10 KEY: C  
 Identify nutrition content of fruits and vegetables. (Life Science)  
 Difficulty: 433

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	680	4.8	17.2	64.4	11.8	1.7	64.4	0.0	0.9	0.8	71.8	57.7
Austria	379	3.7	2.1	89.4	3.1	1.7	89.4	0.0	0.5	1.2	93.9	86.3
Belgium (Fl)	352	2.0	2.2	90.4	4.1	1.3	90.4	0.0	0.6	0.6	93.9	86.6
Belgium (Fr)	283	7.2	11.4	71.8	6.3	3.4	71.8	0.7	0.3	2.4	73.8	68.4
Bulgaria	255	2.4	5.4	83.0	4.4	4.8	83.0	1.7	1.4	1.7	84.3	81.4
Canada	1033	7.5	16.0	66.1	8.8	1.5	66.1	0.3	0.1	1.1	71.2	61.7
Colombia	325	10.4	18.0	53.0	11.9	6.6	53.0	0.6	3.0	3.0	58.5	48.6
Cyprus	393	14.5	37.5	36.1	9.8	2.1	36.1	0.2	0.4	1.5	38.7	33.6
Czech Republic	420	2.0	4.8	90.4	0.8	2.0	90.4	0.4	0.5	1.1	90.7	90.1
Denmark	274	4.7	11.5	73.2	8.8	1.9	73.2	0.0	1.4	0.5	79.2	70.3
England	215	4.9	23.4	61.2	10.6	0.0	61.2	0.0	0.0	0.0	64.0	59.2
France	380	11.7	15.4	61.8	6.8	4.3	61.8	1.2	0.8	2.3	61.0	65.1
Germany	364	1.5	2.4	88.8	2.5	4.9	88.8	2.3	0.5	2.0	87.0	90.8
Greece	484	5.9	37.7	41.7	11.6	3.1	41.7	0.4	0.7	2.0	45.5	38.1
Hong Kong	426	15.3	3.2	72.2	9.1	0.2	72.2	0.0	0.2	0.0	69.6	74.7
Hungary	391	1.6	1.3	93.9	1.7	1.6	93.9	0.0	0.7	0.9	96.2	91.6
Iceland	235	3.8	6.5	84.3	4.3	1.1	84.3	0.4	0.0	0.7	88.6	80.2
Iran, Islamic Rep.	475	9.6	21.3	43.5	23.4	2.2	43.5	0.0	0.7	1.4	48.5	39.6
Ireland	395	3.6	22.2	62.0	11.7	0.5	62.0	0.3	0.0	0.2	68.6	53.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	637	4.4	9.8	80.2	5.2	0.5	80.2	0.0	0.0	0.5	84.5	76.3
Korea	368	7.1	8.3	75.7	8.2	0.6	75.7	0.0	0.0	0.6	76.2	75.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	318	3.7	4.3	85.8	1.7	4.5	85.8	0.0	0.8	3.7	89.2	83.0
Lithuania	316	2.3	7.0	64.6	13.8	12.4	64.6	0.0	4.3	8.1	67.6	61.6
Netherlands	258	1.3	3.2	87.4	7.0	1.1	87.4	0.0	0.0	1.1	92.4	82.6
New Zealand	392	7.0	12.3	63.8	15.9	1.0	63.8	0.2	0.4	0.4	65.8	61.9
Norway	313	4.3	6.7	80.7	6.0	2.3	80.7	0.0	0.8	1.5	86.0	76.2
Philippines	731	2.1	9.7	72.9	15.0	0.3	72.9	0.0	0.1	0.1	73.1	72.8
Portugal	417	6.6	14.7	72.2	3.5	3.0	72.2	0.0	0.0	3.0	72.3	72.1
Romania	472	6.1	6.1	78.1	3.5	6.2	78.1	2.6	0.4	3.1	81.8	74.2
Russian Federation	510	1.9	3.0	86.8	4.2	4.1	86.8	0.2	0.0	3.9	90.4	82.7
Scotland	359	4.1	25.1	60.1	9.8	0.8	60.1	0.0	0.3	0.5	60.2	59.9
Singapore	473	9.0	6.4	81.6	2.5	0.5	81.6	0.0	0.2	0.3	82.5	80.7
Slovak Republic	451	1.8	8.1	86.4	2.4	1.4	86.4	0.6	0.0	0.8	87.6	85.3
Slovenia	365	0.6	1.8	94.3	1.7	1.6	94.3	0.0	0.0	1.6	95.0	93.5
South Africa	698	10.1	17.0	52.6	16.3	4.0	52.6	0.4	2.4	1.2	55.0	50.4
Spain	484	8.0	21.3	64.2	5.1	1.4	64.2	0.0	0.1	1.2	59.8	69.1
Sweden	330	4.6	3.4	86.7	5.0	0.3	86.7	0.0	0.3	0.0	88.6	84.4
Switzerland	521	3.7	4.1	86.6	4.8	0.8	86.6	0.0	0.0	0.7	88.8	84.6
Thailand	770	3.1	11.3	76.6	8.0	1.0	76.6	0.0	0.7	0.4	77.5	74.9
United States	477	8.3	17.3	62.7	10.2	1.5	62.7	0.3	0.0	1.2	63.9	61.5
INTERNATIONAL AVG	.	5.4	11.5	73.2	7.5	2.4	73.2	0.3	0.6	1.4	75.6	71.0

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: I11 KEY: C  
 Know identifying features of insects. (Life Science)  
 Difficulty: 615

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	680	6.4	19.2	52.2	15.1	7.0	52.2	0.0	0.9	6.2	50.7	53.6
Austria	379	4.9	19.1	55.6	7.5	12.9	55.6	0.0	0.5	12.3	55.7	57.0
Belgium (Fl)	352	5.9	21.1	61.6	6.3	5.1	61.6	0.0	0.6	4.5	58.1	65.5
Belgium (Fr)	283	6.7	32.5	38.6	11.8	10.4	38.6	3.2	0.3	6.8	33.4	44.7
Bulgaria	255	5.4	25.2	33.8	23.6	12.0	33.8	6.4	2.4	3.1	37.4	29.3
Canada	1033	9.1	27.5	47.3	12.1	4.0	47.3	1.4	0.1	2.5	44.8	49.3
Colombia	325	17.6	23.9	18.1	23.8	16.6	18.1	4.7	3.0	8.9	14.6	21.5
Cyprus	393	13.2	28.7	42.1	5.9	10.0	42.1	3.7	0.4	5.9	36.3	47.9
Czech Republic	420	7.4	21.8	51.5	13.5	5.8	51.5	2.8	0.5	2.5	44.7	59.0
Denmark	274	9.3	27.1	32.3	5.7	25.5	32.3	12.6	1.4	11.5	27.7	34.4
England	215	6.6	24.4	46.6	13.8	8.6	46.6	0.0	0.0	8.6	37.1	53.1
France	380	6.9	32.1	41.6	7.6	11.8	41.6	6.2	0.8	4.8	34.7	49.8
Germany	364	7.1	24.5	46.8	8.5	13.1	46.8	3.5	0.5	9.1	37.9	56.3
Greece	484	10.5	22.4	48.6	7.7	10.8	48.6	5.5	0.8	4.4	45.1	52.2
Hong Kong	426	12.6	15.9	61.9	7.7	1.9	61.9	0.6	0.2	1.1	57.7	65.8
Hungary	391	9.8	22.9	49.9	6.5	10.9	49.9	0.0	0.7	10.1	47.3	52.5
Iceland	235	9.1	34.0	37.3	12.5	7.1	37.3	4.1	0.0	3.1	39.5	35.1
Iran, Islamic Rep.	475	17.0	25.0	28.8	22.0	7.2	28.8	2.0	0.7	4.5	21.0	34.8
Ireland	395	12.7	21.1	28.9	24.1	13.2	28.9	10.6	0.0	2.6	25.9	32.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	637	2.5	23.0	69.5	4.7	0.4	69.5	0.0	0.0	0.4	64.6	73.9
Korea	368	4.4	9.8	79.0	6.5	0.4	79.0	0.0	0.0	0.4	75.2	81.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	318	7.8	42.3	29.5	9.5	10.8	29.5	0.0	1.1	9.8	25.2	34.2
Lithuania	315	14.7	29.0	19.4	6.6	30.3	19.4	6.0	4.3	20.1	15.5	23.3
Netherlands	258	7.5	21.2	54.9	12.7	3.7	54.9	1.0	0.0	2.7	58.0	52.0
New Zealand	392	6.0	21.6	52.0	16.2	4.2	52.0	2.4	0.4	1.4	45.8	57.8
Norway	313	7.2	25.8	51.5	9.0	6.6	51.5	0.0	1.3	5.3	43.7	58.1
Philippines	731	22.0	26.3	24.2	24.1	3.4	24.2	1.1	0.3	2.1	22.8	25.8
Portugal	417	20.0	35.7	19.9	14.9	9.5	19.9	0.0	0.3	9.2	12.8	27.5
Romania	472	15.9	27.8	29.8	6.5	19.9	29.8	6.6	0.4	12.9	23.7	35.5
Russian Federation	509	11.2	30.7	33.6	8.7	15.8	33.6	2.0	0.0	13.8	24.8	43.4
Scotland	359	12.7	25.3	34.4	16.7	10.9	34.4	4.0	0.3	6.7	30.5	38.1
Singapore	473	3.6	21.3	60.7	13.1	1.3	60.7	0.0	0.2	1.1	55.3	66.4
Slovak Republic	451	12.2	23.6	39.9	15.0	9.3	39.9	2.4	0.0	6.8	37.6	42.2
Slovenia	363	12.8	29.4	37.8	10.6	9.4	37.8	2.7	0.0	6.7	37.9	37.7
South Africa	698	21.5	20.1	26.4	19.3	12.7	26.4	5.6	2.7	4.4	26.7	26.6
Spain	484	12.6	29.1	29.0	16.3	13.0	29.0	0.0	0.1	12.8	22.0	36.6
Sweden	330	5.6	27.3	50.9	11.8	4.4	50.9	1.6	0.3	2.5	44.3	57.5
Switzerland	521	6.7	26.7	47.4	11.1	8.1	47.4	5.5	0.1	2.5	48.8	46.1
Thailand	770	9.4	25.9	44.0	19.0	1.8	44.0	0.0	0.7	1.1	42.5	46.6
United States	477	10.5	25.1	45.2	14.4	4.9	45.2	1.7	0.0	3.2	39.3	50.7
INTERNATIONAL AVG	.	10.1	25.4	42.6	12.6	9.4	42.6	2.7	0.7	6.0	38.7	46.4

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: I12 KEY: D  
 Determine which set of trials to include in a controlled scientific experiment. (Environment and other content)  
 Difficulty: 677

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	680	15.0	13.4	27.9	31.6	10.0	1.9	31.6	0.0	0.9	1.1	30.7	32.5
Austria	379	15.7	7.8	21.9	40.0	9.5	5.2	40.0	0.0	0.5	4.6	41.8	37.9
Belgium (Fl)	352	17.7	12.5	20.0	37.4	10.3	2.1	37.4	0.0	0.6	1.5	39.0	35.7
Belgium (Fr)	283	14.0	11.3	26.8	29.4	13.9	4.6	29.4	0.4	0.3	3.9	31.4	28.2
Bulgaria	255	10.8	8.2	26.2	38.0	9.1	7.8	38.0	0.4	2.7	4.7	39.0	35.8
Canada	1033	16.2	15.0	27.8	30.9	9.2	0.8	30.9	0.5	0.1	0.3	34.4	28.4
Colombia	325	11.4	12.1	33.6	16.7	17.8	8.4	16.7	0.3	3.2	4.9	19.2	14.5
Cyprus	393	16.0	17.4	36.6	17.0	9.1	3.9	17.0	1.5	0.8	1.6	17.5	16.4
Czech Republic	420	18.1	7.8	22.9	37.0	10.9	3.3	37.0	0.9	0.5	1.9	32.8	41.7
Denmark	274	18.7	10.1	17.3	31.8	10.3	11.9	31.8	3.4	1.7	6.8	31.9	32.6
England	215	16.2	12.8	24.3	34.9	10.1	1.8	34.9	0.0	0.0	1.8	39.5	31.7
France	380	15.1	11.6	24.2	28.9	13.8	6.4	28.9	3.1	0.8	2.4	29.7	28.7
Germany	364	16.1	8.7	27.5	27.7	9.3	10.6	27.7	2.2	1.3	7.0	25.9	29.7
Greece	484	11.3	13.4	32.7	25.7	11.8	5.0	25.7	1.2	0.8	3.1	26.8	24.9
Hong Kong	426	22.4	9.0	22.4	34.1	11.6	0.5	34.1	0.0	0.2	0.2	31.2	36.8
Hungary	391	11.6	6.9	17.9	41.3	14.8	7.5	41.3	0.0	1.1	6.3	42.0	40.6
Iceland	235	20.3	14.4	27.7	25.8	9.6	2.1	25.8	1.7	0.0	0.4	30.0	21.7
Iran, Islamic Rep.	475	14.9	13.6	29.3	14.4	24.1	3.7	14.4	0.0	0.7	3.0	12.8	15.8
Ireland	395	16.1	17.1	33.7	18.9	11.4	2.7	18.9	0.9	0.0	1.8	18.5	19.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	637	9.1	7.4	13.0	65.4	4.5	0.7	65.4	0.5	0.0	0.2	60.9	69.5
Korea	368	17.9	11.2	19.0	42.6	8.4	0.9	42.6	0.0	0.0	0.9	30.1	51.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	318	13.8	13.4	22.9	29.4	11.8	8.8	29.4	0.0	1.1	7.7	29.1	29.9
Lithuania	315	10.6	13.3	22.6	24.5	10.7	18.3	24.5	1.8	4.9	11.6	28.6	20.4
Netherlands	258	24.2	11.7	15.6	36.4	10.3	1.9	36.4	1.1	0.0	0.7	37.1	35.7
New Zealand	392	18.3	11.8	26.3	29.5	11.0	3.2	29.5	1.2	0.4	1.6	25.9	32.9
Norway	313	12.9	20.8	28.4	22.2	11.7	3.9	22.2	0.0	1.3	2.6	21.5	22.8
Philippines	731	13.3	16.1	38.4	19.8	12.0	0.3	19.8	0.0	0.3	0.0	19.4	20.3
Portugal	417	16.9	10.9	46.8	14.3	9.1	2.0	14.3	0.0	0.3	1.7	14.7	13.9
Romania	472	11.6	10.8	30.5	20.4	15.5	11.1	20.4	2.3	0.6	8.2	19.2	21.8
Russian Federation	510	16.9	10.4	26.8	30.2	8.8	7.0	30.2	1.1	0.0	5.8	28.5	32.0
Scotland	359	11.9	14.8	32.3	24.2	15.4	1.4	24.2	0.6	0.3	0.5	26.0	22.3
Singapore	473	10.8	6.2	14.8	59.2	8.0	0.9	59.2	0.0	0.2	0.7	60.6	57.8
Slovak Republic	451	17.2	6.7	30.8	27.1	14.2	4.0	27.1	2.5	0.0	1.5	29.2	24.9
Slovenia	365	19.2	8.3	19.8	39.3	8.8	4.6	39.3	1.6	0.0	2.9	39.6	39.1
South Africa	698	11.5	11.6	34.3	20.9	15.7	6.1	20.9	1.5	2.7	2.0	20.0	22.7
Spain	484	17.9	14.7	27.3	19.4	14.8	5.9	19.4	0.0	0.6	5.3	21.9	16.6
Sweden	330	10.2	15.3	34.1	19.5	19.1	1.8	19.5	0.6	0.3	0.8	19.6	19.6
Switzerland	521	18.5	13.1	22.1	34.3	8.8	3.2	34.3	0.9	0.1	2.3	31.2	37.3
Thailand	770	21.3	13.8	23.0	32.2	7.7	2.1	32.2	0.0	0.7	1.4	31.0	33.9
United States	477	14.4	11.9	33.2	30.2	9.0	1.2	30.2	0.0	0.0	1.2	34.6	26.0
INTERNATIONAL AVG	.	15.4	11.9	26.6	30.1	11.6	4.5	30.1	0.8	0.8	2.9	30.1	30.1

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: I13 KEY: A  
 Select best scale for accurate measurement. (Environment and other content)  
 Difficulty: 525

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	680	48.1	13.1	9.7	14.5	12.0	2.6	48.1	0.0	0.9	1.7	48.4	47.7
Austria	379	68.9	11.8	6.4	8.7	1.9	2.2	68.9	0.0	0.5	1.7	66.0	71.4
Belgium (Fl)	352	67.5	6.1	5.0	17.2	2.0	2.1	67.5	0.0	0.6	1.5	66.7	68.4
Belgium (Fr)	283	72.9	9.6	2.8	10.7	1.9	2.1	72.9	0.0	0.3	1.8	72.7	72.5
Bulgaria	255	65.0	6.2	10.7	10.1	2.0	6.1	65.0	0.0	3.1	3.0	64.3	65.7
Canada	1033	44.3	12.1	13.3	9.9	19.7	0.6	44.3	0.0	0.1	0.5	44.9	44.6
Colombia	325	27.7	18.6	11.6	11.7	23.0	7.4	27.7	0.3	4.1	3.0	27.1	28.6
Cyprus	393	35.7	21.9	14.2	12.9	10.0	5.2	35.7	0.4	0.8	4.0	38.3	33.1
Czech Republic	420	80.5	10.1	1.7	5.9	0.5	1.3	80.5	0.0	0.7	0.6	77.0	84.4
Denmark	274	48.4	21.8	7.6	8.3	4.4	9.6	48.4	0.0	2.1	7.4	51.7	45.7
England	215	39.1	8.3	15.7	13.6	22.8	0.5	39.1	0.0	0.0	0.5	32.3	43.8
France	380	61.6	11.9	5.6	11.9	4.7	4.3	61.6	0.9	1.3	2.1	60.5	62.5
Germany	364	64.9	11.6	3.2	11.8	2.9	5.6	64.9	0.5	1.3	3.8	64.7	65.4
Greece	484	59.5	16.9	6.7	8.4	6.3	2.2	59.5	0.0	0.8	1.3	61.0	58.6
Hong Kong	426	47.9	11.4	9.5	14.6	15.4	1.3	47.9	0.0	0.2	1.0	43.3	52.2
Hungary	391	69.1	10.4	5.2	6.0	4.8	4.4	69.1	0.0	1.4	3.0	71.5	66.7
Iceland	235	50.0	28.3	6.0	6.3	7.6	1.8	50.0	0.0	0.2	1.6	50.2	49.7
Iran, Islamic Rep.	475	24.6	21.5	12.7	14.8	22.3	4.1	24.6	0.0	0.7	3.4	20.4	28.1
Ireland	395	42.1	11.8	12.2	9.4	22.9	1.6	42.1	0.3	0.0	1.3	36.7	48.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	637	73.6	6.3	3.3	12.0	4.6	0.2	73.6	0.0	0.0	0.2	69.9	76.9
Korea	368	71.4	4.0	6.0	11.6	6.7	0.4	71.4	0.0	0.0	0.4	61.8	78.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	318	52.0	23.5	6.0	5.9	3.0	9.6	52.0	0.0	1.4	8.2	50.2	54.3
Lithuania	316	56.0	17.0	3.3	7.0	1.0	15.8	56.0	0.5	5.1	10.1	61.7	50.3
Netherlands	258	72.4	9.5	4.1	10.9	3.0	0.2	72.4	0.0	0.0	0.2	72.5	72.4
New Zealand	392	41.7	13.6	14.2	11.4	17.8	1.3	41.7	0.0	1.0	0.4	35.0	48.1
Norway	313	56.2	24.5	7.1	8.5	1.0	2.6	56.2	0.0	1.3	1.3	60.3	52.8
Philippines	731	26.9	28.5	14.5	10.5	18.3	1.2	26.9	0.3	0.3	0.7	26.7	27.2
Portugal	417	51.9	19.0	6.5	14.1	7.2	1.3	51.9	0.0	0.3	1.0	53.2	50.6
Romania	474	49.7	22.6	9.8	6.3	5.2	6.5	49.7	0.6	0.6	5.2	45.7	54.0
Russian Federation	510	62.0	19.6	3.8	7.4	2.4	4.8	62.0	0.1	0.0	4.7	61.3	62.8
Scotland	359	40.0	20.8	6.3	11.9	19.8	1.2	40.0	0.0	0.5	0.6	36.8	43.1
Singapore	473	54.3	17.7	7.5	13.0	7.2	0.3	54.3	0.0	0.2	0.2	54.4	54.2
Slovak Republic	451	83.3	7.4	1.5	4.8	1.7	1.3	83.3	0.0	0.4	1.0	83.6	82.9
Slovenia	365	71.5	10.0	5.0	9.7	1.1	2.7	71.5	0.5	0.0	2.2	73.8	68.7
South Africa	698	22.5	20.9	14.5	12.6	24.2	5.2	22.5	0.8	2.7	1.8	23.2	22.4
Spain	484	58.1	14.7	6.4	11.0	7.6	2.2	58.1	0.0	1.0	1.2	55.5	61.0
Sweden	330	49.0	22.4	7.6	14.1	6.2	0.6	49.0	0.0	0.3	0.2	49.4	48.6
Switzerland	521	64.2	14.5	4.4	8.6	5.0	3.3	64.2	0.4	0.1	2.8	63.1	65.2
Thailand	770	43.8	10.0	9.1	13.7	22.3	1.2	43.8	0.0	0.8	0.4	44.7	42.4
United States	.	.	.	.	.	.	.	.	.	.	.	.	.
INTERNATIONAL AVG	.	54.3	15.1	7.7	10.6	9.0	3.2	54.3	0.1	0.9	2.2	53.4	55.2

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: I14 KEY: D  
 Relate elbow action to a simple machine. (Life Science)  
 Difficulty: 561

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	680	7.4	27.4	9.3	54.3	1.5	54.3	0.0	0.9	0.6	47.4	60.6
Austria	379	6.8	14.8	9.4	66.3	2.7	66.3	0.0	0.5	2.2	64.3	68.1
Belgium (Fl)	352	3.7	11.4	9.6	71.1	4.2	71.1	0.0	0.6	3.5	71.1	71.2
Belgium (Fr)	283	10.5	14.4	7.5	58.9	8.7	58.9	0.0	0.6	8.1	55.3	64.1
Bulgaria	255	8.6	20.0	15.2	44.3	11.8	44.3	0.0	3.1	8.7	46.6	40.5
Canada	1033	8.4	22.0	9.3	59.4	1.0	59.4	0.0	0.1	0.9	57.7	61.5
Colombia	325	24.4	15.3	7.3	46.3	6.8	46.3	0.3	4.9	1.6	52.7	40.8
Cyprus	393	16.6	24.6	11.3	43.3	4.2	43.3	0.0	0.8	3.4	40.9	45.6
Czech Republic	420	9.5	11.8	8.6	67.7	2.5	67.7	0.2	0.7	1.6	64.9	70.8
Denmark	274	13.6	16.1	17.3	37.2	15.8	37.2	0.0	2.1	13.6	37.0	38.6
England	215	4.0	25.1	5.3	64.7	0.9	64.7	0.0	0.0	0.9	69.3	61.5
France	380	11.8	19.1	6.5	55.2	7.4	55.2	0.0	1.6	5.8	53.4	59.2
Germany	364	8.4	19.8	8.5	52.7	10.6	52.7	0.5	1.7	8.4	50.4	55.7
Greece	484	12.9	23.6	13.8	45.5	4.2	45.5	0.4	0.8	2.9	43.7	47.8
Hong Kong	426	11.1	11.2	27.5	49.5	0.7	49.5	0.0	0.2	0.4	53.6	45.7
Hungary	391	2.9	9.7	2.6	80.5	4.2	80.5	0.0	1.7	2.5	79.9	81.1
Iceland	235	18.6	22.7	18.9	38.4	1.3	38.4	0.0	0.2	1.1	37.6	39.2
Iran, Islamic Rep.	475	18.8	22.1	10.5	45.3	3.4	45.3	0.0	0.7	2.6	46.6	44.2
Ireland	395	8.1	27.8	9.6	52.8	1.6	52.8	0.3	0.0	1.4	49.5	57.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	637	4.5	22.6	22.0	50.3	0.6	50.3	0.0	0.0	0.6	46.2	54.1
Korea	368	3.6	45.0	10.8	40.2	0.4	40.2	0.0	0.0	0.4	33.1	45.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	28.2	15.7	18.8	22.7	14.5	22.7	0.0	1.9	12.6	17.9	27.8
Lithuania	316	14.4	7.9	12.9	32.0	32.8	32.0	0.0	5.1	27.6	29.0	35.0
Netherlands	258	7.4	10.9	14.2	66.7	0.9	66.7	0.0	0.1	0.9	63.7	69.6
New Zealand	392	7.6	21.5	11.6	57.7	1.6	57.7	0.2	1.0	0.5	59.6	55.9
Norway	313	14.3	25.0	14.9	41.5	4.4	41.5	0.0	1.3	3.1	42.2	40.9
Philippines	731	26.9	22.2	12.6	37.9	0.4	37.9	0.0	0.3	0.1	36.5	39.4
Portugal	417	18.8	26.0	12.2	39.5	3.5	39.5	0.0	0.4	3.1	40.0	39.0
Romania	474	28.4	14.4	5.3	45.6	6.3	45.6	1.4	0.8	4.1	44.9	46.0
Russian Federation	510	12.1	10.2	4.2	65.5	8.0	65.5	0.0	0.0	8.0	66.9	64.0
Scotland	359	6.6	21.5	12.3	57.7	1.9	57.7	0.0	0.5	1.4	58.4	56.8
Singapore	473	12.3	14.6	15.8	56.3	1.0	56.3	0.0	0.2	0.8	60.4	51.9
Slovak Republic	451	14.8	11.3	7.2	61.6	5.1	61.6	0.0	0.8	4.3	57.7	65.4
Slovenia	365	10.8	39.5	8.5	38.5	2.7	38.5	0.0	0.0	2.7	35.0	42.8
South Africa	698	19.8	21.1	24.0	29.6	5.5	29.6	0.0	3.1	2.4	28.4	31.5
Spain	484	12.0	17.4	12.9	55.0	2.6	55.0	0.0	1.0	1.7	53.1	57.2
Sweden	330	16.9	11.7	18.1	51.0	2.3	51.0	0.0	0.3	2.0	45.4	57.2
Switzerland	521	9.4	17.9	13.3	54.7	4.6	54.7	0.5	0.1	4.1	54.6	54.9
Thailand	770	21.4	38.2	12.5	26.2	1.8	26.2	0.0	0.8	0.9	25.0	28.3
United States	477	8.1	29.8	10.1	50.1	1.8	50.1	0.1	0.8	0.9	49.9	50.3
INTERNATIONAL AVG	.	12.6	20.1	12.1	50.3	4.9	50.3	0.1	1.0	3.8	49.2	51.7

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: I15 KEY: A  
 Identify the type of scientific statement given in an experimental report. (Environment and other content)  
 Difficulty: 594

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	680	62.8	20.4	4.2	4.7	5.5	2.3	62.8	0.0	0.9	1.4	69.1	57.1
Austria	379	64.0	16.2	4.1	8.2	4.7	2.7	64.0	0.0	0.9	1.8	69.8	60.3
Belgium (Fl)	352	21.1	41.6	6.7	14.2	9.5	7.0	21.1	0.0	0.6	6.3	18.2	24.3
Belgium (Fr)	283	47.4	26.8	4.5	5.0	7.1	9.2	47.4	0.0	0.6	8.6	47.5	46.4
Bulgaria	255	35.1	39.4	6.8	8.0	5.1	5.6	35.1	0.3	3.1	2.2	37.4	33.3
Canada	1033	62.0	22.2	3.9	3.3	7.0	1.6	62.0	0.0	0.1	1.5	63.9	60.3
Colombia	325	24.7	15.0	8.8	17.4	25.5	8.5	24.7	0.3	4.9	3.3	26.5	23.3
Cyprus	393	41.8	33.4	8.3	7.6	4.9	4.0	41.8	0.4	0.8	2.8	45.5	38.2
Czech Republic	420	66.3	19.5	3.4	4.4	3.7	2.6	66.3	0.0	1.0	1.7	65.5	67.2
Denmark	274	23.0	22.3	10.4	13.3	11.3	19.7	23.0	0.0	3.4	16.3	21.3	26.4
England	215	50.0	26.5	5.8	10.0	6.8	0.9	50.0	0.0	0.0	0.9	49.2	50.6
France	380	46.1	29.3	4.9	5.4	7.5	6.8	46.1	0.7	1.6	4.5	47.4	44.6
Germany	364	63.7	15.2	2.2	5.5	4.8	8.7	63.7	0.7	1.7	6.3	66.3	61.5
Greece	484	25.3	44.7	9.1	12.8	3.5	4.5	25.3	0.4	0.8	3.3	27.0	23.8
Hong Kong	426	40.8	35.3	5.8	12.2	5.6	0.2	40.8	0.0	0.2	0.0	38.5	43.0
Hungary	391	72.4	9.6	3.3	6.9	3.8	3.9	72.4	0.0	1.7	2.2	77.1	67.9
Iceland	235	37.3	14.4	11.2	27.3	7.4	2.4	37.3	0.0	0.2	2.2	38.1	36.5
Iran, Islamic Rep.	475	17.2	34.1	8.0	29.3	6.9	4.5	17.2	0.2	1.0	3.3	14.2	19.7
Ireland	395	40.2	32.8	8.0	12.0	5.5	1.6	40.2	0.0	0.0	1.6	39.9	40.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	637	36.6	50.4	5.1	3.9	3.5	0.5	36.6	0.0	0.0	0.5	42.0	31.6
Korea	368	60.0	34.0	1.3	1.1	3.2	0.4	60.0	0.0	0.0	0.4	60.1	60.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	318	32.9	32.5	2.7	17.7	5.1	9.0	32.9	0.0	2.2	6.8	34.4	31.6
Lithuania	316	23.7	30.3	9.4	9.2	6.1	21.3	23.7	0.0	6.3	15.0	27.8	19.6
Netherlands	258	40.9	39.4	1.9	11.2	4.9	1.7	40.9	0.0	0.1	1.7	42.8	39.1
New Zealand	392	43.7	23.7	6.3	13.8	9.7	2.8	43.7	0.2	1.0	1.6	48.7	39.0
Norway	313	29.5	26.1	17.0	11.7	11.5	4.3	29.5	0.0	1.3	3.0	36.2	23.8
Philippines	731	57.6	7.7	10.1	16.6	7.0	1.1	57.6	0.0	0.3	0.8	59.3	55.7
Portugal	417	32.5	43.6	5.3	3.0	13.5	2.0	32.5	0.0	0.4	1.6	36.2	28.5
Romania	473	30.7	35.9	9.1	4.5	9.6	10.1	30.7	1.7	0.8	7.6	29.0	32.6
Russian Federation	510	39.6	31.3	4.2	11.2	7.4	6.4	39.6	0.0	0.0	6.4	39.1	40.1
Scotland	359	42.8	30.1	8.0	10.6	6.1	2.4	42.8	0.3	0.5	1.6	41.5	44.0
Singapore	473	63.1	19.1	4.0	8.5	4.4	0.8	63.1	0.0	0.2	0.6	71.8	53.8
Slovak Republic	451	58.3	24.7	2.7	5.9	4.4	4.1	58.3	0.6	0.8	2.8	58.6	58.1
Slovenia	365	63.1	14.7	6.1	5.9	5.3	4.9	63.1	0.2	0.0	4.7	62.8	63.4
South Africa	698	25.7	20.0	24.1	11.1	12.7	6.4	25.7	0.5	3.3	2.6	26.1	25.2
Spain	484	37.0	26.2	7.9	14.4	10.8	3.7	37.0	0.0	1.0	2.7	35.9	38.2
Sweden	330	19.2	42.8	5.8	18.6	11.9	1.8	19.2	0.0	0.3	1.4	16.4	22.0
Switzerland	521	58.5	16.4	3.6	9.2	7.3	4.9	58.5	0.5	0.3	4.1	64.8	52.6
Thailand	770	58.9	25.3	4.3	6.1	4.2	1.1	58.9	0.1	0.8	0.2	58.4	58.6
United States	477	57.5	18.1	6.3	7.0	8.8	2.4	57.5	0.3	0.8	1.3	59.9	55.1
INTERNATIONAL AVG	.	43.8	27.3	6.6	10.2	7.3	4.7	43.8	0.2	1.1	3.4	45.4	42.4

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: I16 KEY: A  
 Identify material with greatest heat conductivity. (Physics)  
 Difficulty: 341

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	680	88.4	2.3	6.2	1.9	1.2	88.4	0.0	1.2	0.0	94.4	82.9
Austria	379	87.1	2.5	5.8	3.2	1.5	87.1	0.0	0.9	0.6	88.3	87.0
Belgium (Fl)	352	82.0	2.4	12.6	1.9	1.2	82.0	0.0	0.9	0.3	83.7	80.1
Belgium (Fr)	283	75.3	2.0	12.6	6.9	3.2	75.3	0.2	0.6	2.3	71.4	79.7
Bulgaria	255	80.5	3.3	7.6	2.5	6.0	80.5	0.0	3.1	2.9	78.9	82.3
Canada	1033	90.0	2.6	4.7	2.3	0.4	90.0	0.0	0.1	0.3	92.0	88.0
Colombia	325	72.8	2.0	10.0	5.2	10.1	72.8	0.3	6.2	3.5	69.9	75.5
Cyprus	393	65.1	10.0	17.5	5.3	2.1	65.1	0.0	0.8	1.2	62.6	67.6
Czech Republic	420	77.9	2.8	14.1	3.2	1.9	77.9	0.1	1.0	0.9	75.8	80.3
Denmark	274	70.2	6.2	12.3	5.5	5.8	70.2	0.4	3.5	1.9	70.6	69.8
England	215	92.4	0.5	4.7	1.9	0.4	92.4	0.0	0.4	0.0	92.1	92.6
France	380	75.0	3.4	11.8	6.7	3.1	75.0	0.0	1.8	1.3	75.4	74.4
Germany	364	87.0	2.4	4.7	1.0	4.8	87.0	0.2	1.9	2.7	87.7	86.6
Greece	484	78.3	5.9	9.9	4.7	1.2	78.3	0.0	1.0	0.2	78.5	79.0
Hong Kong	426	89.4	1.6	4.2	4.1	0.7	89.4	0.0	0.2	0.4	90.7	88.1
Hungary	391	87.2	1.7	6.2	1.8	3.0	87.2	0.0	1.7	1.3	87.6	86.8
Iceland	235	85.6	5.2	5.9	2.2	1.1	85.6	0.0	0.2	0.9	82.5	88.6
Iran, Islamic Rep.	475	65.3	4.5	15.3	13.0	1.9	65.3	0.0	1.2	0.7	69.1	62.8
Ireland	395	76.2	3.7	16.9	2.8	0.3	76.2	0.3	0.0	0.0	76.6	75.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	637	93.6	1.8	3.8	0.6	0.1	93.6	0.0	0.0	0.1	94.9	92.5
Korea	368	91.2	1.2	5.8	1.6	0.4	91.2	0.0	0.0	0.4	91.1	91.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	318	82.0	3.5	7.3	3.6	3.6	82.0	0.0	2.2	1.4	84.5	79.3
Lithuania	316	73.4	3.0	9.9	2.6	11.1	73.4	0.3	7.1	3.8	74.7	72.0
Netherlands	258	81.1	2.8	12.4	2.9	0.8	81.1	0.4	0.4	0.0	79.9	82.3
New Zealand	392	86.7	1.1	8.5	2.3	1.4	86.7	0.0	1.0	0.4	84.7	88.5
Norway	313	86.0	3.2	5.1	3.6	2.1	86.0	0.0	1.3	0.8	83.8	87.9
Philippines	731	56.4	5.9	18.6	18.3	0.8	56.4	0.0	0.4	0.4	53.4	59.7
Portugal	417	71.6	4.4	13.4	8.2	2.5	71.6	0.0	0.4	2.1	72.0	71.1
Romania	473	76.7	2.4	8.6	6.1	6.1	76.7	0.8	1.0	4.4	72.2	81.1
Russian Federation	510	82.7	1.3	10.0	2.5	3.5	82.7	0.4	0.0	3.1	84.2	81.0
Scotland	359	82.8	2.4	12.7	1.6	0.5	82.8	0.0	0.5	0.0	81.2	84.4
Singapore	473	95.2	1.1	1.9	1.6	0.2	95.2	0.0	0.2	0.0	97.3	93.1
Slovak Republic	451	76.2	1.4	15.5	5.5	1.5	76.2	0.0	0.8	0.7	73.9	78.5
Slovenia	364	75.4	3.4	15.4	4.1	1.7	75.4	0.7	0.0	1.0	77.2	73.1
South Africa	698	46.7	10.2	28.2	10.4	4.6	46.7	0.3	3.3	0.9	43.6	51.5
Spain	484	79.9	3.2	10.0	4.6	2.2	79.9	0.0	1.6	0.6	74.6	85.8
Sweden	330	81.7	5.8	7.3	3.6	1.6	81.7	0.0	0.6	1.0	84.1	78.9
Switzerland	521	89.3	1.6	6.1	2.1	0.8	89.3	0.0	0.3	0.5	89.8	88.9
Thailand	770	88.8	0.9	5.0	3.4	1.9	88.8	0.0	0.8	1.1	89.5	87.6
United States	477	84.2	3.8	7.2	3.3	1.5	84.2	0.0	0.8	0.7	89.0	79.7
INTERNATIONAL AVG	.	80.2	3.2	9.9	4.2	2.5	80.2	0.1	1.2	1.1	80.1	80.4

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: I17 KEY: B  
 Know energy source for Earth's water cycle. (Earth Science)  
 Difficulty: 644

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	680	27.9	39.3	18.1	12.4	2.4	39.3	0.0	1.2	1.2	37.3	41.2
Austria	379	23.7	53.5	10.7	10.6	1.5	53.5	0.0	0.9	0.7	55.2	52.5
Belgium (Fl)	352	40.4	37.1	9.6	10.3	2.6	37.1	0.0	1.2	1.4	33.9	40.6
Belgium (Fr)	283	26.8	40.7	11.0	12.2	9.3	40.7	0.2	0.7	8.4	39.3	43.0
Bulgaria	255	26.6	29.0	7.9	25.4	11.0	29.0	0.5	3.7	6.8	31.5	26.8
Canada	1033	21.6	52.2	13.0	12.7	0.4	52.2	0.0	0.2	0.2	52.7	52.1
Colombia	325	23.3	28.3	17.8	18.4	12.2	28.3	0.3	8.1	3.8	23.8	32.5
Cyprus	393	31.2	42.3	16.6	8.5	1.5	42.3	0.0	1.5	0.0	44.1	40.5
Czech Republic	420	31.6	42.6	7.6	16.1	2.2	42.6	0.1	1.5	0.5	37.2	48.4
Denmark	274	23.6	25.5	17.3	25.9	7.7	25.5	0.8	3.5	3.4	22.2	25.3
England	215	29.7	41.8	17.0	10.8	0.8	41.8	0.0	0.4	0.4	39.2	43.5
France	380	30.9	36.4	10.2	17.0	5.4	36.4	0.2	2.1	3.1	37.7	36.6
Germany	364	29.0	33.6	13.6	16.2	7.6	33.6	1.0	2.8	3.8	33.2	34.2
Greece	484	39.8	40.4	10.0	5.6	4.2	40.4	0.6	1.0	2.5	45.2	35.9
Hong Kong	426	26.9	46.6	7.1	19.0	0.5	46.6	0.0	0.2	0.2	45.2	47.8
Hungary	391	23.7	17.3	16.8	37.0	5.2	17.3	0.0	2.0	3.2	13.9	20.5
Iceland	235	26.5	22.4	11.7	36.8	2.7	22.4	0.9	0.4	1.3	16.9	27.7
Iran, Islamic Rep.	475	50.0	31.0	7.3	9.7	2.0	31.0	0.0	1.2	0.7	28.6	32.8
Ireland	395	31.1	41.0	14.2	12.7	1.0	41.0	0.3	0.0	0.7	40.8	41.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	637	18.6	53.4	15.7	11.7	0.6	53.4	0.0	0.0	0.6	51.2	55.5
Korea	368	24.7	41.3	23.6	10.1	0.4	41.3	0.0	0.0	0.4	43.3	39.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	38.3	17.3	28.6	10.4	5.4	17.3	0.0	2.8	2.5	19.2	14.7
Lithuania	316	35.6	22.3	10.3	15.8	16.1	22.3	0.0	7.4	8.7	23.2	21.4
Netherlands	258	25.6	45.4	10.3	17.6	1.2	45.4	0.0	0.4	0.8	44.0	46.8
New Zealand	392	23.7	35.7	22.0	16.4	2.3	35.7	0.2	1.0	1.2	34.6	36.7
Norway	313	24.4	31.9	15.6	25.7	2.3	31.9	0.0	1.5	0.8	30.7	33.0
Philippines	731	16.4	33.2	24.2	25.2	1.0	33.2	0.0	0.4	0.5	31.3	35.4
Portugal	417	29.0	30.1	18.1	19.3	3.5	30.1	0.5	0.6	2.4	29.7	30.5
Romania	470	36.2	28.2	10.7	14.7	10.1	28.2	2.4	1.2	6.6	27.6	29.1
Russian Federation	510	35.7	39.8	7.9	11.7	5.0	39.8	0.7	0.0	4.3	33.9	46.4
Scotland	359	28.7	38.8	18.1	12.9	1.5	38.8	0.0	0.5	1.0	35.9	41.5
Singapore	473	15.4	58.6	17.1	8.3	0.6	58.6	0.0	0.2	0.4	57.5	59.8
Slovak Republic	451	38.4	37.5	5.1	16.4	2.6	37.5	0.2	0.8	1.7	39.9	35.0
Slovenia	364	32.7	37.9	16.0	8.6	4.7	37.9	1.4	0.0	3.4	35.8	40.6
South Africa	698	28.3	26.1	23.5	15.7	6.5	26.1	0.3	3.8	2.3	23.7	30.0
Spain	484	25.9	43.3	14.3	12.9	3.5	43.3	0.0	1.6	1.9	39.8	47.2
Sweden	330	18.3	36.3	13.2	29.3	2.9	36.3	0.0	0.8	2.1	39.7	32.3
Switzerland	521	21.9	41.2	14.4	19.7	2.9	41.2	1.0	0.3	1.6	36.4	45.7
Thailand	770	21.6	41.8	7.8	26.9	1.9	41.8	0.0	1.0	0.9	40.5	43.3
United States	477	24.0	43.1	19.1	12.4	1.5	43.1	0.0	0.8	0.7	47.5	38.9
INTERNATIONAL AVG	.	28.2	37.1	14.3	16.5	3.9	37.1	0.3	1.4	2.2	36.1	38.2

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent



Item: I18  
 Write conclusion from summary of experimental observations. (Environment and other content)  
 Difficulty: 678

COUNTRY	N	10	19	70	71	79	90	99	V1	NOT	1.GIRL	2.BOY	
										REACH			ED
Australia	680	28.6	12.2	4.6	2.4	28.9	4.7	18.5	40.9	1.5	17.0	45.1	37.1
Austria	379	14.2	4.2	46.1	10.7	14.7	3.6	6.5	18.4	0.9	5.6	20.7	16.4
Belgium (Fl)	352	41.7	6.6	18.5	6.5	12.9	2.0	11.8	48.3	1.2	10.6	51.6	44.7
Belgium (Fr)	283	0.0	15.9	0.0	0.0	35.6	0.0	48.5	15.9	2.2	46.3	18.1	12.1
Bulgaria	255	27.9	3.3	18.1	9.5	2.4	16.6	22.3	31.2	3.7	18.6	37.0	25.2
Canada	1033	40.2	2.9	17.0	8.6	12.4	3.9	15.0	43.1	0.3	14.7	47.5	39.2
Colombia	325	10.0	0.8	25.4	11.2	23.8	0.6	28.2	10.8	10.3	17.9	8.3	13.1
Cyprus	393	10.6	14.1	30.0	10.9	7.7	2.4	24.2	24.7	1.5	22.7	31.4	18.1
Czech Republic	420	19.5	9.6	36.6	7.8	11.6	6.6	8.3	29.1	1.7	6.5	27.2	31.2
Denmark	274	11.1	1.9	44.6	17.1	3.5	0.0	21.8	13.0	4.4	17.4	15.3	11.8
England	215	40.0	3.7	19.7	7.9	13.3	5.6	9.8	43.7	0.4	9.4	49.1	39.9
France	380	31.4	14.5	13.5	2.3	9.2	16.3	12.9	45.9	2.7	10.2	50.1	41.3
Germany	362	28.6	2.9	28.1	5.2	9.4	3.2	22.5	31.5	3.3	19.2	30.6	31.9
Greece	484	20.0	11.3	36.1	9.9	5.4	2.1	15.2	31.4	1.4	13.8	35.2	27.7
Hong Kong	426	33.4	10.4	33.0	7.7	6.4	0.7	8.4	43.8	0.2	8.1	43.9	43.7
Hungary	391	10.8	15.5	24.1	4.4	27.8	1.5	15.9	26.3	2.0	13.9	28.7	23.9
Iceland	235	0.5	13.0	47.6	25.4	5.3	3.0	5.3	13.5	0.4	4.8	17.1	10.0
Iran, Islamic Rep.	475	11.6	4.5	26.7	5.6	17.4	0.4	33.7	16.1	1.2	32.5	15.4	16.7
Ireland	395	30.6	1.4	21.1	12.0	18.0	4.4	12.5	32.0	0.0	12.5	33.0	30.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	637	19.3	40.6	4.9	0.3	22.7	0.9	11.3	59.9	0.2	11.2	59.0	60.7
Korea	368	43.3	10.7	10.2	2.3	28.4	0.0	5.1	54.0	0.0	5.1	55.2	53.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	318	18.7	3.2	18.2	7.9	14.8	8.6	28.5	22.0	3.4	25.0	24.0	20.0
Lithuania	316	5.1	10.9	44.8	13.7	1.9	1.8	21.9	16.0	9.6	12.3	13.8	18.2
Netherlands	258	3.4	36.7	28.8	11.2	13.6	3.2	3.1	40.2	0.4	2.7	43.6	36.8
New Zealand	392	39.8	4.4	16.0	8.6	14.5	1.5	15.2	44.2	1.7	13.5	45.5	42.9
Norway	313	19.8	1.0	32.0	23.4	3.2	8.9	11.7	20.8	1.5	10.1	21.0	20.6
Philippines	731	13.3	13.1	11.5	2.6	21.8	5.7	32.0	26.4	0.4	31.6	29.3	23.2
Portugal	417	13.1	5.6	30.7	7.1	24.0	3.6	15.8	18.7	1.0	14.8	19.9	17.5
Romania	473	12.8	2.4	27.8	17.5	6.8	0.4	32.3	15.1	1.7	30.6	16.9	13.5
Russian Federation	510	17.5	9.1	31.0	3.7	10.8	10.9	17.1	26.6	0.0	17.1	27.0	26.1
Scotland	359	23.7	3.9	22.1	8.3	16.3	3.7	21.9	27.7	0.5	21.4	28.6	26.8
Singapore	473	8.8	43.2	8.8	5.6	18.1	1.4	14.1	52.0	0.2	13.9	57.8	45.9
Slovak Republic	451	16.1	3.3	54.2	8.3	6.9	0.5	10.7	19.4	1.0	9.7	18.1	20.7
Slovenia	364	28.2	8.1	18.4	2.7	18.4	6.6	17.7	36.3	0.3	17.4	39.3	32.5
South Africa	698	4.8	1.0	24.4	23.0	11.2	1.1	34.6	5.8	4.7	29.9	5.2	5.8
Spain	484	27.9	3.5	25.8	6.3	10.0	0.6	26.0	31.4	1.8	24.2	33.7	28.8
Sweden	330	17.3	3.1	26.3	8.6	29.4	8.9	6.2	20.5	0.8	5.4	23.1	17.3
Switzerland	521	22.0	3.6	22.8	9.9	22.4	3.1	16.2	25.6	0.8	15.4	28.9	22.5
Thailand	770	37.7	7.1	29.3	6.7	10.4	0.9	8.0	44.7	1.2	6.8	48.8	39.2
United States	477	44.1	2.0	14.2	6.7	22.7	2.9	7.5	46.0	0.8	6.7	48.9	43.3
INTERNATIONAL AVG	.	21.2	9.1	24.8	8.7	14.9	3.8	17.4	30.3	1.8	15.7	32.3	28.2

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: I19 KEY: A  
 Identify statement of oxygen production consistent with data. (Life Science)  
 Difficulty: 582

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	680	52.1	19.6	15.3	9.6	3.5	52.1	0.0	2.0	1.5	57.0	47.7
Austria	379	52.0	22.5	11.3	10.7	3.6	52.0	0.0	1.1	2.4	56.0	48.3
Belgium (Fl)	352	48.0	15.5	22.4	8.9	5.1	48.0	0.0	1.2	3.9	47.2	49.0
Belgium (Fr)	283	42.7	10.9	18.3	15.1	12.9	42.7	0.3	2.9	9.8	41.6	45.0
Bulgaria	255	44.9	18.4	16.1	9.4	11.3	44.9	1.2	4.0	6.1	44.2	45.0
Canada	1033	52.0	19.1	15.3	11.4	2.2	52.0	0.0	0.6	1.6	55.9	48.6
Colombia	325	18.0	23.7	20.7	20.7	16.9	18.0	0.5	13.1	3.2	15.5	20.3
Cyprus	393	34.0	31.8	18.9	8.7	6.5	34.0	0.2	3.3	3.1	36.8	31.4
Czech Republic	420	48.5	18.8	12.0	15.3	5.4	48.5	0.1	2.1	3.2	37.0	61.2
Denmark	274	27.3	29.0	14.7	8.7	20.3	27.3	0.0	7.1	13.2	29.2	25.2
England	215	52.9	19.4	14.4	11.9	1.4	52.9	0.0	0.8	0.6	55.5	51.1
France	380	52.6	12.1	17.0	9.2	9.0	52.6	0.0	3.3	5.7	49.4	55.1
Germany	364	46.1	24.1	6.5	9.8	13.6	46.1	0.7	5.5	7.3	44.9	47.6
Greece	484	46.6	19.0	18.3	11.3	4.9	46.6	0.2	2.6	2.1	48.4	45.1
Hong Kong	425	44.9	18.6	21.4	14.2	1.0	44.9	0.0	0.2	0.8	44.2	45.6
Hungary	391	54.6	8.7	11.7	18.1	6.8	54.6	0.0	4.0	2.8	53.4	55.8
Iceland	235	37.5	29.4	20.1	9.8	3.2	37.5	0.7	0.4	2.1	46.2	28.9
Iran, Islamic Rep.	475	20.5	18.9	32.2	23.7	4.7	20.5	0.0	3.2	1.5	17.0	23.4
Ireland	395	45.5	24.9	13.1	13.4	3.0	45.5	0.0	0.6	2.4	44.5	46.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	637	69.7	12.2	12.4	5.1	0.7	69.7	0.0	0.3	0.4	69.0	70.2
Korea	368	72.6	11.1	12.5	3.4	0.4	72.6	0.0	0.0	0.4	69.2	75.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	318	37.9	16.8	15.7	14.5	15.2	37.9	0.0	5.9	9.3	35.9	40.2
Lithuania	316	31.9	17.4	8.3	12.7	29.7	31.9	0.0	12.5	17.2	34.1	29.7
Netherlands	258	54.6	15.9	16.3	11.8	1.4	54.6	0.7	0.4	0.4	52.1	57.0
New Zealand	392	50.2	18.1	13.8	13.0	4.8	50.2	0.0	3.4	1.4	50.6	49.9
Norway	313	43.9	23.8	18.8	6.2	7.3	43.9	0.0	2.0	5.3	45.0	42.9
Philippines	731	31.9	37.6	17.8	6.6	6.2	31.9	0.1	4.8	1.2	32.6	31.0
Portugal	417	52.1	22.1	10.4	12.3	3.0	52.1	0.0	1.7	1.4	48.9	55.6
Romania	471	36.4	21.3	13.9	15.4	13.1	36.4	2.0	4.4	6.6	31.1	42.0
Russian Federation	.	.	.	.	.	.	.	.	.	.	.	.
Scotland	359	46.6	19.0	14.5	16.2	3.6	46.6	0.0	1.5	2.1	45.8	47.6
Singapore	473	62.3	13.5	15.4	7.4	1.5	62.3	0.0	0.9	0.6	60.9	63.7
Slovak Republic	451	40.8	18.1	12.9	18.4	9.8	40.8	0.8	3.4	5.6	40.2	41.4
Slovenia	364	53.9	19.5	9.8	10.6	6.1	53.9	0.7	1.2	4.1	51.4	57.1
South Africa	698	22.1	33.7	22.7	12.9	8.6	22.1	0.3	5.7	2.6	18.5	27.1
Spain	484	39.7	24.1	14.6	12.8	8.7	39.7	0.0	4.0	4.7	35.9	43.9
Sweden	330	52.0	18.8	14.4	11.4	3.5	52.0	0.2	0.8	2.5	52.8	51.0
Switzerland	521	43.2	19.2	15.5	15.6	6.4	43.2	1.3	2.1	3.0	43.9	42.6
Thailand	770	55.0	10.6	18.9	11.4	4.1	55.0	0.0	1.7	2.4	58.6	49.6
United States	477	52.2	20.5	16.1	9.5	1.8	52.2	0.0	1.0	0.7	56.6	47.9
INTERNATIONAL AVG	.	45.4	19.9	15.8	12.0	6.9	45.4	0.3	3.0	3.7	45.1	45.8

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: J01 KEY: C  
 Know changes in Earth's surface over billions of years. (Earth Science)  
 Difficulty: 650

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	700	8.0	18.6	36.0	35.7	1.7	36.0	0.0	0.4	1.3	38.0	33.5
Austria	379	14.8	20.0	35.6	26.1	3.5	35.6	0.0	0.0	3.5	35.7	36.1
Belgium (Fl)	348	7.1	20.4	52.2	20.1	0.2	52.2	0.0	0.0	0.2	57.5	47.0
Belgium (Fr)	280	9.8	14.2	40.5	26.1	9.4	40.5	0.0	0.6	8.8	41.6	37.9
Bulgaria	205	3.0	12.8	7.8	67.9	8.5	7.8	0.6	1.2	6.7	3.8	12.6
Canada	1033	10.0	13.4	45.2	29.6	1.8	45.2	0.1	0.0	1.7	47.9	42.8
Colombia	329	9.1	18.8	23.1	45.0	4.0	23.1	0.9	0.6	2.4	18.3	27.2
Cyprus	.	.	.	.	.	.	.	.	.	.	.	.
Czech Republic	431	6.3	11.7	28.6	52.4	1.0	28.6	0.3	0.0	0.7	29.6	27.6
Denmark	274	6.4	14.1	31.4	35.8	12.3	31.4	0.3	0.0	12.0	31.3	31.7
England	231	8.6	22.4	36.8	31.4	0.8	36.8	0.0	0.0	0.8	36.2	37.3
France	362	7.5	21.2	41.9	24.6	4.9	41.9	0.3	0.0	4.5	38.6	44.8
Germany	342	15.6	17.9	33.9	22.8	9.8	33.9	0.6	0.0	9.2	36.1	31.6
Greece	475	13.8	19.1	27.6	35.8	3.7	27.6	0.0	0.0	3.7	26.2	28.9
Hong Kong	423	22.6	13.5	39.5	23.5	0.9	39.5	0.0	0.0	0.9	40.2	38.5
Hungary	385	25.2	15.8	17.5	35.5	6.0	17.5	0.0	0.0	6.0	13.8	20.9
Iceland	242	7.2	7.6	29.8	52.3	3.1	29.8	0.0	0.0	3.1	28.2	31.6
Iran, Islamic Rep.	470	26.6	12.1	15.7	42.4	3.2	15.7	0.5	0.0	2.7	14.5	16.3
Ireland	382	8.0	17.5	41.9	31.3	1.3	41.9	0.3	0.0	1.0	39.8	44.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	634	29.0	17.9	43.8	8.7	0.6	43.8	0.2	0.0	0.5	44.9	42.8
Korea	366	12.3	15.4	65.3	7.0	0.0	65.3	0.0	0.0	0.0	65.2	65.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	333	10.1	19.6	26.5	38.5	5.2	26.5	0.0	0.0	5.2	22.3	31.0
Lithuania	319	13.9	16.0	23.8	30.1	16.2	23.8	0.6	0.9	14.7	25.7	22.2
Netherlands	261	9.9	13.3	50.4	22.5	4.0	50.4	0.7	0.0	3.4	57.7	42.3
New Zealand	410	12.9	14.2	33.0	37.8	2.1	33.0	1.1	0.0	1.0	32.4	33.4
Norway	312	14.4	13.1	34.7	34.3	3.5	34.7	0.0	0.3	3.3	38.8	29.6
Philippines	729	19.2	14.5	21.5	43.9	0.8	21.5	0.0	0.3	0.5	19.6	23.8
Portugal	424	11.5	23.2	39.4	24.9	1.0	39.4	0.0	0.0	1.0	36.1	42.9
Romania	461	10.1	16.4	35.0	29.3	9.2	35.0	1.9	0.2	7.1	37.7	32.4
Russian Federation	527	3.6	8.1	56.2	26.2	5.9	56.2	0.0	0.0	5.9	55.1	57.3
Scotland	364	10.8	16.7	29.8	40.6	2.2	29.8	0.8	0.2	1.1	29.9	30.0
Singapore	462	11.1	23.8	41.3	21.6	2.2	41.3	0.0	0.0	2.2	42.3	40.1
Slovak Republic	470	6.4	17.6	56.4	17.2	2.4	56.4	0.3	0.0	2.1	58.8	53.7
Slovenia	371	4.4	9.1	39.3	45.3	1.9	39.3	0.0	0.0	1.9	37.6	41.3
South Africa	693	15.3	24.4	17.1	38.3	5.0	17.1	0.1	0.6	4.3	14.8	19.7
Spain	466	8.3	18.2	48.1	23.3	2.1	48.1	0.0	0.0	2.1	46.0	50.8
Sweden	354	14.8	17.8	24.9	41.1	1.4	24.9	0.0	0.0	1.4	24.4	25.3
Switzerland	506	16.7	14.5	36.4	27.6	4.8	36.4	0.0	0.0	4.8	35.6	37.3
Thailand	748	10.8	30.2	15.1	42.3	1.6	15.1	0.0	0.2	1.4	15.2	15.0
United States	472	15.1	16.3	47.3	20.6	0.6	47.3	0.0	0.5	0.1	48.9	45.7
INTERNATIONAL AVG	.	12.1	16.7	35.1	32.3	3.8	35.1	0.2	0.2	3.4	35.0	35.2

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: J02 KEY: A  
 Choose species on Earth for shortest time. (Life Science)  
 Difficulty: 505

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	700	80.9	9.7	3.0	4.4	1.9	80.9	0.0	0.4	1.5	78.9	83.5
Austria	379	80.2	10.1	1.9	6.9	1.0	80.2	0.0	0.0	1.0	80.3	80.3
Belgium (Fl)	348	71.0	8.8	7.6	12.3	0.3	71.0	0.0	0.0	0.3	65.9	76.0
Belgium (Fr)	280	53.3	16.3	14.2	13.6	2.5	53.3	0.5	0.6	1.4	49.4	58.2
Bulgaria	205	62.1	22.2	6.9	6.4	2.4	62.1	0.0	1.2	1.2	70.9	51.6
Canada	1033	75.6	10.5	5.0	8.0	0.8	75.6	0.0	0.0	0.8	72.0	79.5
Colombia	329	30.1	23.3	13.5	30.1	3.0	30.1	1.1	0.6	1.2	24.2	35.2
Cyprus	368	27.6	50.8	7.7	11.3	2.5	27.6	1.4	0.0	1.1	27.2	28.4
Czech Republic	431	70.5	14.0	8.6	6.1	0.8	70.5	0.4	0.0	0.4	71.6	69.3
Denmark	274	77.9	6.7	3.8	9.5	2.2	77.9	0.0	0.0	2.2	74.8	81.1
England	231	72.2	10.1	7.2	10.5	0.0	72.2	0.0	0.0	0.0	61.4	82.1
France	362	65.9	16.4	6.0	9.5	2.2	65.9	1.4	0.6	0.2	60.4	70.5
Germany	342	72.8	16.2	2.9	6.4	1.7	72.8	0.3	0.0	1.4	73.5	71.9
Greece	475	35.3	36.2	10.7	16.1	1.7	35.3	0.3	0.0	1.3	29.4	40.7
Hong Kong	423	50.3	23.7	7.2	17.9	0.9	50.3	0.0	0.0	0.9	47.0	52.5
Hungary	385	53.1	27.9	6.2	11.5	1.3	53.1	0.0	0.0	1.3	53.8	52.4
Iceland	242	69.9	14.2	4.6	9.5	1.9	69.9	0.0	0.0	1.9	65.0	75.0
Iran, Islamic Rep.	470	35.2	41.1	10.2	12.3	1.3	35.2	0.1	0.0	1.1	26.6	42.0
Ireland	382	68.9	11.7	2.3	17.1	0.0	68.9	0.0	0.0	0.0	63.8	74.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	634	71.7	11.6	7.6	8.8	0.2	71.7	0.1	0.0	0.1	68.4	74.9
Korea	366	51.5	22.0	3.8	22.7	0.0	51.5	0.0	0.0	0.0	43.4	57.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	333	24.4	45.6	12.1	15.2	2.7	24.4	0.0	0.0	2.7	25.8	23.1
Lithuania	319	70.0	10.0	4.4	11.2	4.4	70.0	0.6	0.9	2.8	72.2	68.0
Netherlands	261	66.2	16.9	3.0	11.7	2.2	66.2	0.4	0.0	1.8	67.5	64.3
New Zealand	410	78.4	7.6	3.3	9.9	0.8	78.4	0.0	0.0	0.8	72.6	83.1
Norway	312	80.0	9.0	3.5	5.6	2.0	80.0	0.0	0.3	1.7	79.4	80.8
Philippines	.	.	.	.	.	.	.	.	.	.	.	.
Portugal	424	65.2	14.7	7.0	12.6	0.5	65.2	0.0	0.0	0.5	63.3	67.2
Romania	462	50.8	21.5	8.1	15.7	3.9	50.8	0.9	0.2	2.8	50.0	51.5
Russian Federation	527	71.2	6.7	4.4	16.3	1.4	71.2	0.4	0.0	1.1	72.5	69.8
Scotland	364	72.7	12.7	4.0	10.0	0.5	72.7	0.0	0.2	0.3	69.5	75.4
Singapore	462	41.3	35.6	7.6	14.7	0.8	41.3	0.0	0.0	0.8	40.4	42.3
Slovak Republic	470	27.7	63.5	6.3	2.1	0.4	27.7	0.0	0.0	0.4	23.3	32.6
Slovenia	371	41.5	51.3	3.2	2.3	1.7	41.5	0.0	0.0	1.7	41.7	41.2
South Africa	693	37.3	31.7	15.1	13.2	2.7	37.3	0.2	0.6	1.9	33.2	42.5
Spain	466	43.2	19.2	7.4	29.9	0.4	43.2	0.0	0.0	0.4	39.2	48.0
Sweden	355	83.7	3.8	4.1	8.0	0.4	83.7	0.2	0.0	0.2	82.8	84.5
Switzerland	506	70.7	18.1	3.8	5.7	1.7	70.7	0.4	0.0	1.3	70.0	71.5
Thailand	748	75.4	10.6	6.7	6.4	0.9	75.4	0.1	0.2	0.6	78.2	71.4
United States	472	77.4	7.9	3.8	9.6	1.3	77.4	0.0	0.5	0.8	71.1	84.0
INTERNATIONAL AVG	.	60.3	20.3	6.4	11.6	1.5	60.3	0.2	0.2	1.1	58.0	62.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: J03  
 Know relationship between molecules, atoms and cells. (Chemistry)  
 Difficulty: 726

COUNTRY	N	10	70	71	72	73	74	79	90	99	V1	NOT	1.GIRL	2.BOY	
												REACH			% Right
												ED	OMIT		
Australia	700	18.1	9.3	21.8	11.3	13.7	13.2	6.3	0.0	6.2	18.1	0.4	5.8	14.5	22.7
Austria	379	17.1	8.3	36.2	7.3	13.9	10.4	2.1	1.5	3.3	17.1	0.0	3.3	13.3	20.0
Belgium (Fl)	348	16.5	14.7	21.3	8.7	27.5	7.3	2.7	0.6	0.8	16.5	0.0	0.8	10.6	22.3
Belgium (Fr)	280	8.9	0.0	0.0	0.0	0.0	0.0	81.1	0.0	10.0	8.9	0.9	9.1	6.6	11.8
Bulgaria	205	50.0	6.7	22.6	2.9	1.6	0.0	4.1	1.1	10.9	50.0	1.2	9.7	48.6	51.8
Canada	1033	23.0	12.1	14.8	11.4	14.5	18.3	3.4	0.4	2.1	23.0	0.0	2.1	19.7	25.6
Colombia	329	16.7	12.1	16.6	8.0	16.5	9.1	8.7	0.6	11.7	16.7	0.6	11.0	10.7	21.8
Cyprus	368	11.5	6.7	15.2	5.0	15.7	27.7	4.7	0.6	12.9	11.5	0.0	12.9	9.0	13.9
Czech Republic	431	31.7	7.7	33.8	2.3	16.5	1.2	3.7	0.8	2.5	31.7	0.0	2.5	25.0	38.6
Denmark	274	14.5	7.0	22.4	9.7	14.8	9.2	5.8	0.3	16.3	14.5	0.0	16.3	11.4	18.1
England	231	25.4	12.1	18.3	12.2	12.9	12.7	3.1	0.9	2.5	25.4	0.0	2.5	20.5	29.8
France	362	17.3	4.3	12.8	6.8	25.6	24.9	3.0	0.6	4.8	17.3	0.6	4.2	17.6	17.4
Germany	339	16.2	7.2	31.2	10.3	14.6	7.8	2.1	0.4	10.2	16.2	0.3	9.9	10.9	21.4
Greece	475	31.7	15.4	20.4	4.6	7.4	12.1	3.4	1.0	3.9	31.7	0.0	3.9	29.5	33.8
Hong Kong	423	25.5	20.3	8.5	7.4	17.0	5.6	8.2	0.0	7.5	25.5	0.0	7.5	26.1	25.3
Hungary	386	32.5	29.2	19.0	1.2	4.7	0.8	7.8	0.6	4.3	32.5	0.0	4.3	26.0	38.2
Iceland	242	8.6	11.7	31.5	10.1	3.4	4.3	15.6	1.6	13.2	8.6	0.0	13.2	9.8	7.3
Iran, Islamic Rep.	470	14.2	1.7	37.6	1.6	10.4	0.2	27.3	0.0	7.1	14.2	0.0	7.0	14.7	13.9
Ireland	382	25.0	13.9	25.0	10.5	12.3	7.0	3.5	0.2	2.6	25.0	0.0	2.6	21.6	28.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	634	32.4	20.3	7.7	9.4	18.4	9.8	0.7	0.0	1.4	32.4	0.0	1.4	31.2	33.6
Korea	366	16.6	21.5	17.5	9.9	10.5	20.1	2.7	0.0	1.1	16.6	0.0	1.1	19.8	14.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	336	12.5	4.5	28.2	7.8	10.5	3.6	7.2	2.7	23.2	12.5	0.0	23.2	9.7	14.7
Lithuania	319	13.6	4.1	11.1	5.3	0.6	2.2	16.7	1.5	45.0	13.6	0.9	44.1	15.6	11.7
Netherlands	261	14.8	7.2	26.4	7.9	26.3	12.0	2.7	0.8	1.9	14.8	0.0	1.9	10.1	20.5
New Zealand	410	16.1	8.5	20.5	13.7	10.7	17.2	8.8	0.2	4.4	16.1	0.0	4.4	15.6	16.5
Norway	312	12.3	7.1	31.9	6.7	11.8	6.8	9.8	2.3	11.1	12.3	0.3	10.9	9.4	15.9
Philippines	729	21.1	15.1	24.4	5.8	6.4	3.7	14.3	0.7	8.5	21.1	0.3	8.2	21.4	20.8
Portugal	424	17.7	13.1	14.6	8.7	20.6	13.4	7.4	0.5	4.0	17.7	0.0	4.0	17.6	17.7
Romania	462	28.8	4.6	18.3	5.6	11.4	2.2	12.3	0.5	16.3	28.8	0.2	16.1	27.9	29.7
Russian Federation	527	41.1	2.3	21.1	2.9	3.6	1.8	12.9	1.8	12.5	41.1	0.0	12.5	36.7	45.8
Scotland	364	21.2	13.0	25.1	11.1	14.0	7.8	4.9	0.6	2.3	21.2	0.2	2.0	16.9	25.3
Singapore	462	21.2	15.5	18.2	7.7	22.6	11.1	1.7	0.0	2.0	21.2	0.0	2.0	18.7	23.8
Slovak Republic	470	28.2	9.5	36.5	1.8	14.5	1.8	4.2	0.0	3.4	28.2	0.0	3.4	21.9	35.1
Slovenia	371	23.8	10.5	29.0	4.6	17.1	3.6	3.6	2.5	5.3	23.8	0.0	5.3	20.8	27.4
South Africa	693	6.8	3.9	20.9	6.3	8.5	7.0	32.4	0.0	14.2	6.8	0.6	13.6	6.8	6.9
Spain	466	30.3	9.7	18.9	13.5	13.5	8.3	2.1	0.0	3.7	30.3	0.0	3.7	30.4	30.0
Sweden	354	21.5	11.6	21.1	11.7	17.7	9.3	3.1	0.5	3.6	21.5	0.0	3.6	15.3	27.7
Switzerland	506	9.1	5.0	36.7	7.9	15.8	14.9	2.4	1.0	7.3	9.1	0.0	7.3	6.7	11.5
Thailand	748	21.4	19.2	40.6	1.8	8.2	3.1	3.1	0.0	2.6	21.4	0.2	2.4	21.8	20.9
United States	472	27.4	15.8	23.9	8.4	12.2	7.3	2.2	0.2	2.7	27.4	0.5	2.1	26.6	28.3
INTERNATIONAL AVG	.	21.1	10.6	22.5	7.2	12.9	8.5	8.8	0.7	7.7	21.1	0.2	7.5	18.7	23.5

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: J04 KEY: C  
 Distinguish between a chemical reaction and a physical change. (Chemistry)  
 Difficulty: 634

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	700	17.8	19.0	40.0	21.7	1.5	40.0	0.0	0.4	1.1	42.0	37.5
Austria	379	22.3	18.3	31.9	24.1	3.3	31.9	0.0	0.0	3.3	26.1	38.8
Belgium (Fl)	348	13.3	34.3	20.0	29.6	2.8	20.0	0.4	0.0	2.4	17.1	22.9
Belgium (Fr)	280	14.8	21.6	31.4	25.1	7.1	31.4	0.0	0.9	6.1	25.2	38.7
Bulgaria	205	17.8	9.9	51.9	16.7	3.7	51.9	1.8	1.6	0.3	53.2	50.3
Canada	1033	18.0	19.6	39.4	21.6	1.4	39.4	0.1	0.0	1.3	36.8	41.9
Colombia	329	22.0	20.5	25.9	27.6	4.0	25.9	0.8	0.9	2.3	22.0	29.2
Cyprus	368	19.1	32.0	22.9	22.6	3.3	22.9	0.3	0.0	3.0	23.1	22.6
Czech Republic	431	12.8	9.9	50.5	24.9	1.9	50.5	0.9	0.0	1.1	45.9	55.3
Denmark	274	7.7	30.7	14.6	35.6	11.5	14.6	0.6	0.0	10.9	13.6	15.9
England	231	14.8	23.8	37.9	22.1	1.4	37.9	0.0	0.0	1.4	33.3	42.2
France	362	10.3	23.9	32.7	29.1	4.1	32.7	0.2	0.6	3.3	32.0	34.9
Germany	342	14.5	21.2	31.9	26.0	6.4	31.9	2.6	0.3	3.4	24.8	38.7
Greece	475	11.9	23.9	35.7	25.1	3.3	35.7	0.4	0.0	2.9	33.8	37.4
Hong Kong	423	18.0	29.0	25.6	26.5	0.9	25.6	0.0	0.0	0.9	25.5	25.9
Hungary	386	21.4	5.2	57.1	6.0	10.3	57.1	0.0	0.0	10.3	58.0	56.3
Iceland	242	9.3	10.0	21.8	56.0	2.8	21.8	0.0	0.0	2.8	17.9	25.9
Iran, Islamic Rep.	470	20.8	10.1	54.3	13.5	1.4	54.3	0.8	0.0	0.5	54.6	54.2
Ireland	382	20.6	16.7	36.5	25.1	1.1	36.5	0.9	0.0	0.2	32.0	41.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	634	6.3	33.7	26.0	33.3	0.7	26.0	0.3	0.0	0.4	22.6	29.3
Korea	366	5.6	15.7	66.3	12.4	0.0	66.3	0.0	0.0	0.0	61.8	69.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	338	4.6	41.1	19.3	28.3	6.7	19.3	0.0	0.0	6.7	16.8	22.0
Lithuania	319	6.0	27.4	17.7	24.0	25.0	17.7	0.3	0.9	23.8	21.1	14.6
Netherlands	261	15.9	22.8	39.6	18.9	2.8	39.6	0.0	0.0	2.8	46.1	32.5
New Zealand	410	20.1	27.0	26.1	25.7	1.1	26.1	0.0	0.0	1.1	21.1	30.1
Norway	312	17.7	26.4	14.6	37.8	3.5	14.6	0.0	0.3	3.3	12.8	16.8
Philippines	730	19.5	17.9	38.9	23.3	0.4	38.9	0.0	0.3	0.1	36.8	41.4
Portugal	424	19.8	27.0	28.8	22.4	2.0	28.8	0.0	0.0	2.0	28.7	28.9
Romania	460	12.8	28.2	44.1	7.2	7.7	44.1	3.5	0.2	4.0	44.6	43.5
Russian Federation	527	10.6	31.4	29.3	12.1	16.5	29.3	0.0	0.0	16.5	24.5	34.4
Scotland	364	18.1	20.9	28.7	30.1	2.2	28.7	1.1	0.2	0.8	33.4	24.1
Singapore	462	6.8	14.5	73.0	5.0	0.7	73.0	0.0	0.0	0.7	73.6	72.2
Slovak Republic	470	10.8	20.2	40.6	26.7	1.7	40.6	0.6	0.0	1.1	36.4	45.2
Slovenia	371	28.7	10.2	49.8	9.2	2.1	49.8	0.8	0.0	1.3	47.0	53.1
South Africa	693	20.3	23.5	31.4	22.7	2.0	31.4	0.1	0.6	1.3	31.9	30.8
Spain	466	28.5	21.1	27.1	21.3	2.0	27.1	0.0	0.0	2.0	21.6	33.6
Sweden	355	15.6	34.5	18.6	30.3	1.0	18.6	0.0	0.0	1.0	15.9	20.8
Switzerland	506	18.3	32.1	18.6	27.5	3.6	18.6	1.1	0.0	2.5	16.3	20.9
Thailand	748	20.1	30.0	35.3	14.0	0.7	35.3	0.0	0.2	0.5	35.5	35.4
United States	472	15.6	15.0	47.7	21.2	0.5	47.7	0.0	0.5	0.0	43.6	51.9
INTERNATIONAL AVG	.	15.7	22.5	34.6	23.3	3.9	34.6	0.4	0.2	3.2	32.7	36.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: J05 KEY: B  
 Identify type of solar radiation that causes sunburn. (Physics)  
 Difficulty: 495

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	700	2.4	81.7	3.0	7.7	4.2	0.9	81.7	0.0	0.4	0.5	79.2	85.0
Austria	379	9.8	69.2	13.1	3.8	1.9	2.1	69.2	0.0	0.0	2.1	67.7	70.7
Belgium (Fl)	348	9.5	55.0	12.7	16.9	4.0	1.8	55.0	0.0	0.0	1.8	46.6	63.2
Belgium (Fr)	280	15.1	53.7	6.5	19.3	1.9	3.6	53.7	0.0	1.3	2.3	37.2	73.6
Bulgaria	205	8.2	68.5	14.1	3.8	2.3	3.1	68.5	0.0	1.6	1.5	67.7	69.4
Canada	1033	3.6	74.7	7.5	7.6	5.6	1.1	74.7	0.0	0.0	1.0	69.9	78.9
Colombia	329	4.1	57.3	7.2	25.9	2.8	2.8	57.3	0.8	0.9	1.0	46.3	66.8
Cyprus	368	10.3	21.2	15.4	45.9	5.3	1.9	21.2	0.3	0.0	1.6	16.8	25.5
Czech Republic	431	12.0	64.4	20.1	1.6	1.1	0.7	64.4	0.2	0.0	0.4	62.5	66.4
Denmark	274	18.8	52.6	13.4	6.6	4.0	4.6	52.6	0.8	0.0	3.8	44.5	61.4
England	231	5.7	66.5	15.8	5.3	6.2	0.4	66.5	0.0	0.0	0.4	59.4	73.0
France	362	11.1	53.9	7.0	23.8	1.9	2.3	53.9	0.4	0.6	1.3	49.6	57.4
Germany	342	13.4	65.5	13.6	1.7	2.7	3.1	65.5	2.0	0.3	0.8	58.3	72.2
Greece	474	5.3	43.7	9.3	31.0	6.9	3.7	43.7	0.3	0.0	3.5	43.6	43.8
Hong Kong	423	5.9	80.7	7.5	3.4	1.9	0.5	80.7	0.0	0.0	0.5	82.0	79.6
Hungary	386	7.1	63.4	16.2	6.5	2.4	4.3	63.4	0.0	0.0	4.3	57.3	68.9
Iceland	242	4.9	59.6	25.5	7.3	0.7	1.9	59.6	0.0	0.0	1.9	57.0	62.4
Iran, Islamic Rep.	470	12.9	17.1	16.0	48.7	5.1	0.1	17.1	0.0	0.0	0.1	9.9	22.5
Ireland	382	8.2	70.7	6.2	3.8	11.0	0.0	70.7	0.0	0.0	0.0	66.6	75.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	634	4.8	77.6	16.3	0.9	0.4	0.0	77.6	0.0	0.0	0.0	79.9	75.3
Korea	366	19.0	50.1	20.7	5.4	4.8	0.0	50.1	0.0	0.0	0.0	53.6	47.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	338	18.1	42.3	12.8	4.4	15.8	6.6	42.3	0.0	0.0	6.6	41.1	43.1
Lithuania	319	18.1	48.8	10.6	4.6	1.8	16.0	48.8	0.0	2.0	14.0	50.1	47.6
Netherlands	261	9.1	65.8	13.2	4.6	5.5	1.9	65.8	0.0	0.0	1.9	62.0	71.0
New Zealand	410	4.2	76.0	6.2	7.7	5.1	0.7	76.0	0.0	0.0	0.7	73.4	78.1
Norway	312	10.4	68.9	13.4	2.6	2.7	2.0	68.9	0.0	0.3	1.7	68.8	69.0
Philippines	730	9.9	55.1	9.3	11.9	13.4	0.4	55.1	0.0	0.3	0.1	53.6	56.8
Portugal	424	8.7	48.8	21.5	16.5	2.8	1.5	48.8	0.0	0.0	1.5	43.7	54.3
Romania	461	6.4	48.8	22.1	15.6	1.6	5.6	48.8	3.0	0.2	2.4	47.2	50.3
Russian Federation	527	28.3	43.5	11.7	2.8	4.6	9.1	43.5	0.0	0.0	9.1	43.5	43.5
Scotland	364	11.4	52.1	20.0	4.4	11.0	1.2	52.1	0.0	0.2	1.0	48.1	56.2
Singapore	462	4.3	73.6	13.1	6.4	2.0	0.6	73.6	0.0	0.0	0.6	70.9	76.6
Slovak Republic	470	14.3	61.4	17.6	2.9	2.0	1.9	61.4	0.4	0.0	1.4	58.5	64.7
Slovenia	371	5.3	75.7	9.4	8.4	1.2	0.0	75.7	0.0	0.0	0.0	75.4	75.9
South Africa	693	16.4	19.7	8.7	22.5	30.4	2.3	19.7	0.1	0.6	1.7	18.2	21.3
Spain	466	10.0	62.2	7.0	19.4	0.8	0.6	62.2	0.0	0.0	0.6	56.4	69.0
Sweden	355	18.8	64.1	10.7	2.0	4.3	0.0	64.1	0.0	0.0	0.0	61.0	67.4
Switzerland	506	16.3	59.6	12.8	6.6	3.6	1.1	59.6	0.0	0.0	1.1	53.1	65.8
Thailand	748	6.1	81.9	8.8	1.8	1.0	0.4	81.9	0.0	0.2	0.3	83.3	80.0
United States	472	7.2	65.6	10.9	7.9	7.3	1.1	65.6	0.0	0.5	0.6	62.6	68.7
INTERNATIONAL AVG	.	10.4	59.0	12.7	10.8	4.9	2.3	59.0	0.2	0.2	1.9	55.7	62.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: J06 KEY: B  
 Know what happens to atoms in animal after death. (Chemistry)  
 Difficulty: 761

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	700	15.0	26.3	8.4	48.7	1.6	26.3	0.0	0.4	1.1	28.4	23.7
Austria	379	21.9	23.5	13.7	38.5	2.4	23.5	0.0	0.3	2.1	20.4	25.3
Belgium (Fl)	348	13.4	26.9	7.6	51.3	0.8	26.9	0.0	0.0	0.8	23.7	30.1
Belgium (Fr)	280	14.9	12.1	11.1	51.4	10.5	12.1	0.3	1.3	8.9	12.2	12.4
Bulgaria	205	7.5	34.3	10.6	40.5	7.1	34.3	0.0	1.6	5.5	36.7	31.4
Canada	1033	8.6	38.1	15.9	35.7	1.7	38.1	0.0	0.0	1.7	33.3	42.7
Colombia	329	12.4	26.3	18.5	38.9	3.9	26.3	1.4	0.9	1.6	20.1	31.8
Cyprus	368	15.4	13.6	21.9	47.1	2.0	13.6	0.3	0.0	1.6	13.3	14.1
Czech Republic	431	8.8	15.8	22.2	52.2	1.0	15.8	0.0	0.0	1.0	12.7	19.0
Denmark	274	13.9	13.3	13.1	53.9	5.8	13.3	0.4	0.0	5.4	13.4	13.2
England	231	14.9	24.9	13.9	46.3	0.0	24.9	0.0	0.0	0.0	19.0	30.4
France	362	17.3	12.1	13.6	53.1	3.9	12.1	1.1	0.6	2.2	10.9	12.2
Germany	342	12.0	20.7	13.9	49.7	3.8	20.7	0.5	0.3	3.0	15.8	25.5
Greece	475	9.1	24.7	14.7	49.6	1.9	24.7	0.0	0.0	1.9	26.6	22.9
Hong Kong	423	16.1	34.5	22.5	26.3	0.7	34.5	0.0	0.0	0.7	36.6	33.1
Hungary	386	0.8	44.1	22.4	29.1	3.5	44.1	0.0	0.0	3.5	44.0	44.3
Iceland	242	4.5	15.4	13.3	63.9	2.9	15.4	0.0	0.0	2.9	17.1	13.6
Iran, Islamic Rep.	470	7.2	26.4	14.9	50.7	0.8	26.4	0.0	0.0	0.8	20.8	30.9
Ireland	382	17.0	18.1	13.1	51.8	0.0	18.1	0.0	0.0	0.0	12.4	24.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	634	20.7	32.6	22.1	24.3	0.4	32.6	0.3	0.0	0.1	28.3	36.7
Korea	366	16.5	33.7	22.6	27.2	0.0	33.7	0.0	0.0	0.0	37.5	30.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	338	17.9	17.8	19.3	38.8	6.2	17.8	0.0	0.0	6.2	16.7	19.0
Lithuania	319	11.1	11.0	4.7	53.5	19.8	11.0	0.3	2.3	17.2	12.3	9.8
Netherlands	261	21.1	14.1	5.5	56.8	2.6	14.1	0.0	0.0	2.6	6.3	23.2
New Zealand	410	14.4	27.6	11.8	45.6	0.6	27.6	0.0	0.0	0.6	19.5	34.2
Norway	312	17.5	15.3	14.9	50.4	2.0	15.3	0.0	0.3	1.7	13.2	17.9
Philippines	730	9.6	25.5	31.4	32.9	0.7	25.5	0.0	0.3	0.4	23.4	28.0
Portugal	424	13.8	15.5	14.7	52.7	3.4	15.5	0.0	0.0	3.4	12.1	19.0
Romania	462	6.6	21.8	14.7	51.5	5.5	21.8	1.6	0.2	3.7	19.3	24.3
Russian Federation	527	11.4	19.6	14.2	47.5	7.3	19.6	0.2	0.0	7.0	16.1	23.3
Scotland	364	21.2	17.4	10.9	49.1	1.5	17.4	0.6	0.2	0.7	15.5	19.3
Singapore	462	14.7	19.2	27.3	38.3	0.5	19.2	0.0	0.0	0.5	16.7	21.9
Slovak Republic	470	13.6	14.4	17.8	53.3	0.9	14.4	0.0	0.0	0.9	11.2	17.9
Slovenia	371	10.0	24.9	23.8	38.4	2.8	24.9	0.5	0.0	2.3	18.7	32.5
South Africa	693	39.1	17.9	13.8	26.4	2.8	17.9	0.2	0.6	1.9	17.5	18.8
Spain	466	14.5	18.0	18.6	47.5	1.3	18.0	0.0	0.0	1.3	16.4	20.1
Sweden	355	15.3	18.7	25.2	40.4	0.3	18.7	0.0	0.0	0.3	17.3	20.2
Switzerland	506	13.9	15.6	18.8	48.3	3.4	15.6	1.2	0.0	2.2	15.3	16.1
Thailand	748	15.1	17.2	18.7	47.6	1.3	17.2	0.3	0.2	0.9	19.6	14.0
United States	472	8.8	40.9	7.6	41.7	1.1	40.9	0.0	0.5	0.5	35.9	46.0
INTERNATIONAL AVG	.	13.9	22.2	16.1	44.8	3.0	22.2	0.2	0.3	2.5	20.2	24.3

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent



Item: J07 KEY: D  
 Identify how warm-blooded and cold-blooded animals differ. (Life Science)  
 Difficulty: 600

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	700	9.1	3.3	25.7	52.0	8.0	1.9	52.0	0.0	0.4	1.4	53.0	50.7
Austria	379	10.6	13.4	29.6	34.2	9.4	2.8	34.2	0.0	0.4	2.4	34.9	34.0
Belgium (Fl)	348	5.6	6.7	21.9	53.5	9.1	3.1	53.5	0.7	0.0	2.4	49.9	57.0
Belgium (Fr)	280	3.9	8.1	28.3	41.1	10.2	8.4	41.1	0.7	1.3	6.4	35.0	47.7
Bulgaria	205	2.3	2.4	22.6	56.6	7.1	8.9	56.6	1.6	1.6	5.7	62.1	50.1
Canada	1033	9.5	3.7	23.4	55.8	6.8	0.9	55.8	0.0	0.0	0.9	56.6	55.2
Colombia	329	13.1	11.1	24.8	29.2	18.9	2.8	29.2	1.1	0.9	0.8	28.1	30.2
Cyprus	.	.	.	.	.	.	.	.	.	.	.	.	.
Czech Republic	431	5.1	6.5	23.5	50.3	11.9	2.5	50.3	1.3	0.0	1.2	42.6	58.3
Denmark	274	8.0	9.4	25.2	30.8	16.1	10.5	30.8	1.2	0.0	9.3	29.8	31.4
England	231	6.6	5.7	31.2	44.1	11.0	1.4	44.1	0.0	0.0	1.4	45.9	42.5
France	362	4.0	6.7	17.7	55.0	9.3	7.2	55.0	2.0	0.6	4.6	59.2	52.3
Germany	342	7.8	5.9	24.8	42.6	10.6	8.3	42.6	1.4	0.6	6.3	43.5	41.8
Greece	475	10.2	6.5	29.0	29.7	20.9	3.6	29.7	0.1	0.0	3.5	28.3	31.0
Hong Kong	423	6.8	4.8	13.0	67.9	6.7	0.7	67.9	0.0	0.0	0.7	68.9	66.9
Hungary	386	8.3	4.3	25.5	43.5	10.0	8.4	43.5	0.0	0.0	8.4	42.7	44.1
Iceland	242	11.1	6.3	20.2	39.5	21.5	1.4	39.5	0.4	0.0	1.0	37.9	41.2
Iran, Islamic Rep.	470	5.7	7.5	32.0	42.8	11.1	1.0	42.8	0.2	0.0	0.8	51.3	36.3
Ireland	382	7.4	9.2	29.8	42.4	10.9	0.2	42.4	0.2	0.0	0.0	43.1	41.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	634	4.5	9.0	16.7	53.1	14.2	2.5	53.1	0.6	0.0	1.9	54.2	52.1
Korea	366	9.9	1.1	4.6	81.9	2.6	0.0	81.9	0.0	0.0	0.0	82.4	81.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	334	8.0	10.8	20.8	31.6	21.1	7.7	31.6	0.0	0.0	7.7	29.3	34.3
Lithuania	318	4.2	14.7	24.3	17.2	20.8	18.8	17.2	0.6	2.7	15.5	17.2	17.3
Netherlands	261	5.9	4.8	26.9	54.1	7.5	0.8	54.1	0.0	0.0	0.8	49.6	59.9
New Zealand	410	8.3	7.3	36.5	39.8	7.1	1.0	39.8	0.2	0.0	0.8	39.1	40.3
Norway	312	6.0	11.1	24.7	44.1	10.7	3.3	44.1	0.0	0.3	3.1	45.9	41.8
Philippines	730	13.7	5.9	17.3	52.3	10.1	0.7	52.3	0.0	0.3	0.4	56.9	47.0
Portugal	424	7.2	13.9	20.3	45.8	9.7	3.1	45.8	0.0	0.0	3.1	49.0	42.4
Romania	461	7.3	6.1	17.2	46.9	14.2	8.3	46.9	2.8	0.4	5.1	47.2	46.6
Russian Federation	527	6.8	6.0	29.3	21.4	28.7	7.7	21.4	0.2	0.0	7.5	22.3	20.5
Scotland	364	11.6	7.3	27.0	42.5	10.7	0.8	42.5	0.0	0.2	0.6	36.9	48.1
Singapore	462	7.7	12.4	23.0	52.2	4.0	0.7	52.2	0.0	0.0	0.7	49.3	55.3
Slovak Republic	470	6.2	3.7	24.1	46.8	15.5	3.6	46.8	0.7	0.0	2.9	41.2	53.0
Slovenia	370	6.3	5.9	18.3	54.9	9.7	4.9	54.9	0.8	0.0	4.1	59.2	49.6
South Africa	693	12.1	8.6	32.2	22.5	21.9	2.7	22.5	0.1	0.6	2.1	21.2	23.7
Spain	466	12.3	12.2	13.4	48.8	11.5	1.9	48.8	0.0	0.0	1.9	44.3	54.2
Sweden	355	8.6	17.6	25.4	39.7	7.2	1.4	39.7	0.4	0.0	1.0	38.4	40.9
Switzerland	506	10.3	11.9	24.7	37.1	12.3	3.8	37.1	1.6	0.0	2.2	33.4	40.3
Thailand	748	5.2	5.2	26.4	59.3	3.7	0.3	59.3	0.0	0.2	0.1	57.1	62.2
United States	472	6.8	5.1	21.7	58.8	5.9	1.7	58.8	0.0	0.5	1.1	57.7	59.9
INTERNATIONAL AVG	.	7.8	7.7	23.7	45.2	11.8	3.8	45.2	0.5	0.3	3.1	44.7	45.7

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: J08 KEY: B  
 Identify gas involved in fire ignition. (Chemistry)  
 Difficulty: 610

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	700	16.3	31.2	37.0	14.0	1.5	31.2	0.0	0.4	1.1	32.4	29.6
Austria	379	26.3	37.9	17.4	16.6	1.8	37.9	0.0	0.4	1.5	38.6	38.1
Belgium (Fl)	348	19.6	27.9	30.2	18.6	3.7	27.9	0.0	0.0	3.7	24.9	30.7
Belgium (Fr)	280	22.2	15.7	25.6	29.6	7.0	15.7	0.0	1.3	5.7	13.1	18.0
Bulgaria	205	8.6	64.5	13.7	7.5	5.7	64.5	0.0	1.6	4.1	68.7	59.5
Canada	1033	13.6	27.7	38.2	19.2	1.2	27.7	0.0	0.0	1.2	21.2	33.9
Colombia	329	24.7	10.2	24.7	37.7	2.6	10.2	1.0	0.9	0.7	7.3	12.8
Cyprus	368	7.4	49.1	15.5	25.3	2.8	49.1	0.0	0.0	2.8	46.2	51.6
Czech Republic	431	12.8	65.2	7.5	14.0	0.5	65.2	0.0	0.0	0.5	54.7	76.0
Denmark	274	8.0	50.7	19.1	15.4	6.7	50.7	0.4	0.5	5.8	42.1	60.0
England	231	13.2	36.5	34.4	14.7	1.2	36.5	0.0	0.0	1.2	32.1	40.5
France	362	13.2	23.0	33.6	26.1	4.0	23.0	0.7	0.6	2.7	20.6	23.2
Germany	342	15.4	41.3	14.0	20.3	8.9	41.3	1.4	1.1	6.5	35.4	47.0
Greece	475	8.9	49.0	14.4	25.8	1.9	49.0	0.0	0.0	1.9	47.6	50.3
Hong Kong	423	16.0	47.0	23.0	12.4	1.7	47.0	0.0	0.0	1.7	43.3	50.3
Hungary	386	19.8	32.1	29.1	14.7	4.3	32.1	0.0	0.0	4.3	34.2	30.2
Iceland	242	31.3	16.0	16.4	33.7	2.7	16.0	0.0	0.0	2.7	15.8	16.1
Iran, Islamic Rep.	470	37.9	17.4	14.7	28.2	1.8	17.4	0.0	0.0	1.8	15.7	18.8
Ireland	382	21.1	26.3	35.0	17.1	0.6	26.3	0.3	0.0	0.3	21.0	32.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	634	11.1	68.2	14.0	6.7	0.0	68.2	0.0	0.0	0.0	68.8	67.6
Korea	366	2.1	70.7	9.1	18.1	0.0	70.7	0.0	0.0	0.0	71.4	70.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	334	18.9	33.3	8.6	33.1	6.1	33.3	0.0	0.0	6.1	27.7	38.6
Lithuania	319	8.9	28.6	22.2	16.3	24.0	28.6	0.3	3.1	20.7	30.3	27.1
Netherlands	261	20.8	20.9	36.4	20.9	1.1	20.9	0.0	0.0	1.1	20.6	20.4
New Zealand	410	15.1	24.5	41.0	18.1	1.2	24.5	0.6	0.0	0.6	24.8	24.3
Norway	312	13.0	46.8	22.8	15.3	2.1	46.8	0.0	0.3	1.9	49.8	43.1
Philippines	730	21.1	32.2	25.5	20.7	0.5	32.2	0.0	0.3	0.3	30.2	34.5
Portugal	424	30.1	27.1	16.6	24.3	1.9	27.1	0.0	0.0	1.9	23.8	30.5
Romania	462	7.8	54.5	12.4	20.0	5.2	54.5	0.7	0.4	4.2	53.4	55.6
Russian Federation	527	17.0	49.5	9.3	15.6	8.6	49.5	0.2	0.0	8.4	44.3	55.0
Scotland	364	18.4	24.0	32.0	24.0	1.5	24.0	0.8	0.2	0.5	18.6	29.2
Singapore	462	7.0	77.6	9.7	5.4	0.2	77.6	0.0	0.0	0.2	80.8	74.2
Slovak Republic	470	5.4	66.8	8.2	18.5	1.1	66.8	0.0	0.0	1.1	59.6	74.8
Slovenia	371	7.0	76.1	6.7	9.6	0.5	76.1	0.0	0.0	0.5	70.2	83.4
South Africa	693	18.8	28.7	23.3	26.9	2.3	28.7	0.2	0.9	1.2	29.1	28.4
Spain	466	30.6	26.4	20.3	21.1	1.6	26.4	0.0	0.0	1.6	22.6	31.1
Sweden	355	14.6	47.8	11.7	25.5	0.4	47.8	0.0	0.0	0.4	40.9	55.1
Switzerland	506	24.3	25.8	15.2	32.3	2.3	25.8	0.0	0.0	2.3	24.6	26.6
Thailand	748	16.0	41.2	16.9	25.1	0.7	41.2	0.2	0.2	0.3	37.8	45.7
United States	472	17.6	22.8	39.9	18.2	1.5	22.8	0.0	0.5	0.9	20.0	25.8
INTERNATIONAL AVG	.	16.5	39.1	21.1	20.2	3.1	39.1	0.2	0.3	2.6	36.6	41.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: J09  
 Explain how to determine the age of a cut tree. (Life Science)  
 Difficulty: 413

COUNTRY	N	10	11	19	70	79	90	99	V1	NOT	1.GIRL	2.BOY	
										REACH			OMIT
Australia	700	13.2	45.4	1.6	12.2	18.2	1.4	8.1	60.2	0.4	7.6	62.3	57.5
Austria	379	40.3	50.1	0.5	3.9	2.1	0.4	2.7	90.9	0.4	2.4	93.0	89.6
Belgium (Fl)	348	46.0	49.1	0.3	1.4	1.6	0.3	1.2	95.4	0.0	1.2	96.7	94.2
Belgium (Fr)	280	0.0	0.0	61.0	0.0	24.5	0.0	14.5	61.0	1.3	13.3	59.2	62.7
Bulgaria	205	29.1	58.7	0.2	0.6	0.8	0.0	10.5	88.0	1.6	8.9	89.5	86.3
Canada	1033	13.8	70.1	1.3	6.2	5.1	0.6	2.9	85.2	0.0	2.9	85.2	85.2
Colombia	329	2.5	16.0	3.8	22.0	32.7	0.1	23.0	22.3	0.9	22.1	11.2	31.8
Cyprus	368	9.3	22.9	16.8	7.8	18.0	2.0	23.3	48.9	0.0	23.3	49.5	48.5
Czech Republic	431	19.7	62.8	6.1	3.5	5.0	0.0	2.9	88.6	0.0	2.9	84.4	92.8
Denmark	274	30.9	23.2	38.0	1.0	1.9	0.0	5.0	92.1	0.5	4.5	93.9	90.1
England	231	16.5	31.5	30.1	12.8	5.8	1.2	2.2	78.1	0.0	2.2	72.2	83.6
France	362	9.4	41.5	8.7	18.0	7.4	0.6	14.5	59.5	0.6	13.9	56.6	61.6
Germany	342	35.1	48.3	1.1	3.7	2.3	0.2	9.3	84.5	1.1	8.2	84.2	84.7
Greece	475	9.1	47.9	3.9	7.3	10.6	2.4	18.7	61.0	0.0	18.7	66.4	56.1
Hong Kong	423	7.0	24.2	7.1	20.8	18.4	0.5	22.1	38.2	0.0	22.1	38.2	37.8
Hungary	386	18.3	42.3	23.0	8.5	2.0	0.0	5.9	83.6	0.0	5.9	79.7	87.1
Iceland	242	15.8	56.5	11.2	0.0	11.3	0.2	5.0	83.5	0.0	5.0	86.9	79.9
Iran, Islamic Rep.	470	7.0	55.0	15.2	2.1	14.3	0.9	5.4	77.2	0.0	5.4	68.4	84.0
Ireland	382	19.3	66.6	2.2	4.6	4.6	0.4	2.3	88.1	0.0	2.3	85.4	91.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	634	9.0	72.4	7.6	5.9	1.2	0.7	3.2	89.0	0.0	3.2	88.4	89.5
Korea	366	13.7	68.6	10.7	1.5	3.7	0.0	1.7	93.0	0.0	1.7	92.3	93.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	335	39.7	36.4	4.3	3.2	7.4	3.2	5.7	80.5	0.0	5.7	78.1	82.8
Lithuania	319	27.8	42.8	5.1	3.7	5.9	0.3	14.4	75.7	3.1	11.3	81.7	70.4
Netherlands	261	42.4	49.4	0.4	2.9	1.3	1.4	2.2	92.2	0.0	2.2	90.1	94.6
New Zealand	410	18.3	62.0	6.6	3.6	4.0	0.2	5.3	86.9	0.0	5.3	86.4	87.3
Norway	312	65.0	29.4	0.0	0.9	1.8	0.7	2.1	94.4	0.3	1.9	94.3	94.4
Philippines	730	12.6	13.6	2.6	10.4	34.4	4.1	22.3	28.8	0.3	22.1	27.7	30.1
Portugal	424	3.5	32.4	10.1	11.6	23.8	1.3	17.3	46.1	0.0	17.3	37.8	54.8
Romania	462	11.7	44.3	2.3	9.1	9.8	0.6	22.1	58.4	0.4	21.7	59.0	57.8
Russian Federation	527	24.4	47.8	14.4	1.5	1.6	1.1	9.2	86.5	0.0	9.2	89.5	83.4
Scotland	364	10.1	62.8	5.8	10.4	7.6	0.5	2.8	78.7	0.2	2.5	72.3	84.9
Singapore	462	4.0	35.8	5.7	36.0	10.1	0.7	7.7	45.4	0.0	7.7	43.9	47.1
Slovak Republic	470	12.7	35.3	46.3	1.2	1.8	0.2	2.5	94.2	0.0	2.5	92.8	95.8
Slovenia	371	20.6	54.3	12.5	3.6	3.8	2.2	3.0	87.5	0.0	3.0	85.7	89.5
South Africa	693	3.1	11.2	2.1	8.6	29.2	1.6	44.3	16.3	0.9	43.4	13.6	19.5
Spain	466	10.6	48.8	6.7	14.9	8.7	0.2	10.0	66.2	0.0	10.0	62.0	71.2
Sweden	355	40.6	45.1	4.5	3.5	3.4	0.7	2.2	90.2	0.0	2.2	89.9	90.3
Switzerland	506	33.1	50.5	2.9	3.8	3.2	1.2	5.3	86.5	0.0	5.3	87.7	85.4
Thailand	748	13.3	13.4	12.9	34.3	8.8	9.5	7.8	39.6	0.2	7.6	40.4	38.6
United States	472	9.8	65.9	0.6	10.1	8.0	1.3	4.3	76.4	0.5	3.7	73.4	79.5
INTERNATIONAL AVG	.	19.2	43.4	9.9	7.9	9.2	1.1	9.4	72.5	0.3	9.0	71.2	73.6

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: K10  
 Describe a method demonstrating the existence of air. (Physics)  
 Difficulty: 676

COUNTRY	N	10	11	12	13	14	15	19	70	72	76	79	90	99	V1	NOT	OMIT	1.GIRL % Right	2.BOY % Right	
																REACH ED				
Australia	694	33.8	0.1	1.0	7.8	1.0	1.5	4.8	16.4	3.0	0.0	14.0	2.6	13.9	50.0	0.0	13.9	53.5	46.6	
Austria	377	19.2	0.6	0.7	1.5	1.4	1.8	0.5	37.0	3.4	0.3	14.5	1.6	17.4	25.7	0.0	17.4	29.2	21.7	
Belgium (Fl)	358	19.7	1.5	0.3	4.8	1.3	2.7	7.5	32.0	3.7	0.7	14.2	1.5	10.1	37.7	0.0	10.1	40.1	35.7	
Belgium (Fr)	288	0.0	0.0	0.0	0.0	0.0	0.0	20.7	0.0	0.0	0.0	56.6	0.0	22.8	20.7	1.2	21.6	19.7	19.7	
Bulgaria	288	12.4	1.3	0.8	3.0	0.3	0.6	8.8	24.6	0.0	0.0	7.5	2.1	38.5	27.3	0.8	37.6	28.3	26.5	
Canada	1013	33.3	0.3	1.2	5.6	0.8	1.4	1.3	21.8	10.8	0.1	11.8	2.4	9.1	43.9	0.1	9.0	45.0	43.4	
Colombia	332	30.7	0.7	0.2	0.0	0.2	0.0	11.1	16.0	0.7	0.6	12.0	2.8	25.0	42.9	2.1	22.9	44.5	41.7	
Cyprus	376	38.0	0.0	0.0	1.0	0.5	1.1	0.2	3.9	0.0	1.0	10.8	1.3	42.4	40.7	0.6	41.9	45.2	36.4	
Czech Republic	424	12.4	0.1	0.1	8.5	1.7	3.9	0.4	54.3	2.1	0.8	6.9	1.2	7.6	27.1	0.4	7.3	23.7	30.4	
Denmark	271	33.9	0.9	0.4	1.5	1.0	0.9	2.1	21.4	3.1	1.8	5.3	1.2	26.5	40.7	0.2	26.3	40.1	40.8	
England	227	17.5	2.1	0.5	5.0	0.9	2.7	9.1	19.8	10.8	0.0	18.7	2.5	10.4	37.8	0.0	10.4	42.4	33.4	
France	371	24.3	0.7	0.0	1.1	0.0	2.4	0.8	36.8	2.1	0.3	7.6	2.3	21.6	29.4	0.0	21.6	30.8	28.6	
Germany	369	14.4	1.4	0.6	2.4	0.9	2.7	1.6	30.6	1.2	1.2	5.1	2.4	35.6	24.0	1.5	34.1	24.0	24.0	
Greece	491	56.9	1.1	0.4	2.2	0.1	0.5	0.9	10.7	0.3	0.8	6.7	3.0	16.5	62.1	0.4	16.0	65.9	58.7	
Hong Kong	424	19.6	0.2	0.0	8.7	3.0	15.1	0.5	19.9	2.5	0.7	8.6	3.8	17.4	47.1	0.3	17.1	45.8	48.2	
Hungary	383	3.9	0.0	0.2	5.1	0.5	2.8	0.4	39.6	6.6	0.1	8.3	4.2	28.2	13.0	0.5	27.8	12.5	13.6	
Iceland	246	9.7	0.6	0.0	7.6	0.4	1.7	0.7	27.1	2.0	1.0	11.9	8.0	29.4	20.7	0.0	29.4	20.7	20.7	
Iran, Islamic Rep.	465	3.5	0.5	6.2	4.2	1.8	4.0	1.1	26.7	1.8	0.0	26.5	0.0	23.8	21.2	0.2	23.6	24.3	18.9	
Ireland	382	28.4	0.5	2.2	5.6	0.3	3.2	0.8	24.1	10.4	0.0	11.6	3.4	9.6	40.9	0.0	9.6	40.5	41.3	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	4.0	0.5	0.3	6.5	1.4	4.9	7.3	30.7	1.0	0.0	32.1	2.1	9.2	24.8	0.2	8.9	26.1	23.6	
Korea	379	7.2	0.2	3.9	11.6	1.4	4.2	5.8	49.0	0.5	0.2	10.2	0.0	5.7	34.2	0.0	5.7	33.2	35.0	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	318	11.7	0.3	0.3	3.2	0.0	1.1	3.3	36.7	1.6	0.0	10.7	3.8	27.3	19.9	1.1	26.2	18.2	22.1	
Lithuania	317	3.9	0.0	1.8	0.5	0.0	0.8	2.1	47.3	0.5	3.5	3.6	4.7	31.3	9.1	1.2	30.1	4.3	14.0	
Netherlands	262	28.4	1.0	0.0	6.3	0.5	1.2	3.3	23.6	10.9	0.0	13.4	4.7	6.7	40.7	0.0	6.7	43.7	38.4	
New Zealand	395	33.9	1.9	0.4	4.2	0.5	1.1	0.3	23.8	3.5	0.2	12.7	2.2	15.6	42.2	0.4	15.2	48.5	36.9	
Norway	305	31.8	2.1	0.6	3.7	0.6	1.0	1.0	34.2	1.1	0.0	9.6	1.8	12.5	40.8	0.7	11.7	43.8	38.0	
Philippines	729	15.0	2.2	1.1	0.7	0.0	0.0	3.3	3.0	1.2	4.7	27.3	7.4	34.2	22.2	0.1	34.0	25.3	18.9	
Portugal	420	23.1	0.0	0.5	2.2	0.0	0.3	5.2	46.3	0.7	0.2	6.2	5.5	9.8	31.3	0.0	9.8	25.0	37.9	
Romania	463	7.2	0.5	0.7	1.7	0.7	0.4	3.2	43.3	0.2	0.8	9.2	1.0	31.0	14.5	0.7	30.3	14.4	14.6	
Russian Federation	530	13.0	0.4	3.5	9.3	1.3	3.8	4.6	31.9	0.8	0.4	5.0	3.9	22.0	35.9	0.1	21.9	33.0	39.0	
Scotland	348	22.5	0.0	0.6	3.9	1.1	3.0	1.5	21.9	7.9	0.3	19.1	3.7	14.4	32.7	0.0	14.4	34.3	31.5	
Singapore	437	17.9	0.2	1.6	21.7	0.0	1.7	7.7	22.5	0.6	0.0	13.7	1.3	11.3	50.7	0.1	11.2	51.9	49.6	
Slovak Republic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	356	8.9	2.0	0.3	2.9	0.0	1.6	5.9	43.4	3.8	0.0	11.8	1.5	17.9	21.7	0.0	17.9	22.9	20.6	
South Africa	682	9.7	0.0	0.5	1.4	0.0	2.5	2.4	5.3	0.6	6.5	17.2	2.7	51.1	16.6	1.1	50.0	14.7	19.8	
Spain	477	39.0	0.3	0.7	2.4	0.7	0.2	1.3	16.2	0.0	3.6	10.8	1.0	23.9	44.6	0.1	23.9	45.7	43.4	
Sweden	362	25.8	0.9	0.5	6.4	0.5	1.5	1.9	38.5	2.8	0.0	7.6	2.5	11.0	37.6	0.3	10.7	39.6	35.9	
Switzerland	500	24.1	1.1	0.4	1.6	0.0	1.5	2.3	30.9	1.6	2.0	12.7	3.3	18.5	31.0	0.0	18.5	33.1	29.2	
Thailand	739	24.0	0.6	1.2	7.4	2.1	1.0	3.5	32.7	1.0	1.0	10.8	2.1	12.6	39.8	0.0	12.6	41.3	37.0	
United States	479	33.3	1.2	1.2	3.6	1.0	2.6	0.8	16.6	11.0	0.0	16.9	0.8	11.2	43.6	0.4	10.8	44.9	42.2	
INTERNATIONAL AVG	.	20.4	0.7	0.9	4.5	0.7	2.1	3.6	27.2	3.0	0.8	13.3	2.6	20.1	33.0	0.4	19.7	33.8	32.2	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: K11 KEY: A  
 Identify oxygen/carbon dioxide cycle in aquarium. (Life Science)  
 Difficulty: 551

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	694	47.2	11.6	8.2	21.9	6.9	4.2	47.2	0.0	0.4	3.7	47.8	46.7
Austria	377	45.7	16.5	11.8	15.7	4.2	6.1	45.7	1.4	0.0	4.7	50.9	41.5
Belgium (Fl)	358	43.2	21.0	7.4	18.6	7.0	2.9	43.2	0.0	0.0	2.9	42.2	44.0
Belgium (Fr)	288	34.0	17.3	10.2	14.1	3.9	20.4	34.0	1.1	1.2	18.1	37.9	27.3
Bulgaria	288	59.4	6.1	7.3	8.2	3.7	15.2	59.4	0.4	1.4	13.4	57.2	63.1
Canada	1013	51.8	11.4	10.3	20.2	4.2	2.2	51.8	0.8	0.1	1.3	49.1	54.9
Colombia	332	37.0	19.5	15.0	15.7	4.0	8.8	37.0	0.1	3.7	5.0	35.6	38.6
Cyprus	376	39.5	11.1	15.5	21.1	5.0	7.8	39.5	0.7	0.6	6.5	41.3	37.9
Czech Republic	424	68.4	2.9	8.8	14.4	0.2	5.2	68.4	0.6	0.4	4.3	67.3	69.5
Denmark	271	32.7	18.8	9.0	12.8	11.7	15.0	32.7	0.5	0.2	14.3	30.0	36.4
England	227	55.7	15.1	11.0	13.9	1.8	2.5	55.7	0.0	0.0	2.5	54.8	56.7
France	371	51.4	8.9	11.2	21.4	2.0	5.1	51.4	0.3	0.0	4.8	50.9	50.9
Germany	369	57.7	10.4	7.8	9.7	1.5	12.8	57.7	1.4	1.5	9.9	59.5	56.7
Greece	491	46.3	9.3	13.6	16.5	5.2	9.1	46.3	0.9	0.4	7.8	48.3	44.5
Hong Kong	424	54.5	14.5	12.7	13.3	3.9	1.2	54.5	0.0	0.3	0.9	62.1	48.0
Hungary	383	62.7	6.1	2.6	18.8	2.8	7.0	62.7	0.0	0.8	6.2	60.8	65.2
Iceland	246	42.4	25.7	6.7	17.3	3.3	4.7	42.4	0.2	0.0	4.5	37.9	45.7
Iran, Islamic Rep.	465	40.5	11.2	15.9	25.3	3.8	3.4	40.5	0.1	0.2	3.1	44.7	37.1
Ireland	382	49.5	12.2	7.7	20.6	4.2	5.9	49.5	2.5	0.0	3.4	52.6	45.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	77.8	5.7	3.6	10.3	2.3	0.4	77.8	0.0	0.2	0.1	81.4	74.6
Korea	379	65.4	10.0	8.0	12.6	4.0	0.0	65.4	0.0	0.0	0.0	63.2	67.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	30.1	16.6	17.7	13.7	6.1	15.9	30.1	0.0	1.1	14.8	30.5	29.3
Lithuania	317	37.6	13.9	5.8	8.7	3.8	30.3	37.6	0.6	2.0	27.7	34.1	41.1
Netherlands	262	47.4	18.7	5.3	24.0	1.9	2.7	47.4	0.0	0.0	2.7	45.9	48.4
New Zealand	395	45.6	14.3	12.0	18.9	6.7	2.5	45.6	1.6	0.4	0.5	49.5	42.4
Norway	305	44.2	20.7	9.9	15.7	5.9	3.7	44.2	0.0	0.7	3.0	37.2	50.8
Philippines	729	57.6	10.3	10.4	17.1	4.0	0.5	57.6	0.0	0.1	0.4	60.2	54.7
Portugal	420	59.0	7.6	8.3	19.5	3.4	2.2	59.0	0.0	0.0	2.2	53.6	64.8
Romania	463	61.9	4.4	6.3	13.9	2.7	10.8	61.9	0.9	0.7	9.2	59.4	64.9
Russian Federation	530	58.8	8.7	3.3	14.9	3.4	10.9	58.8	0.0	0.1	10.8	55.5	62.3
Scotland	348	39.7	18.3	9.6	25.3	3.4	3.6	39.7	0.8	0.0	2.9	39.5	40.3
Singapore	437	80.4	4.7	5.1	7.1	1.7	1.0	80.4	0.0	0.1	0.9	84.5	76.7
Slovak Republic	464	58.9	9.8	7.4	16.6	1.2	6.1	58.9	0.4	0.0	5.7	59.7	58.0
Slovenia	356	64.0	11.8	7.7	9.5	1.8	5.2	64.0	0.0	0.0	5.2	63.3	65.0
South Africa	682	43.9	16.1	13.7	16.9	4.1	5.2	43.9	1.8	1.4	2.0	42.2	46.0
Spain	477	54.2	11.1	9.6	15.6	4.0	5.5	54.2	0.0	0.2	5.3	59.3	49.0
Sweden	362	42.8	18.6	13.8	20.4	3.7	0.7	42.8	0.0	0.3	0.4	39.7	45.9
Switzerland	500	38.0	19.9	11.9	18.5	5.0	6.8	38.0	0.4	0.0	6.4	43.1	33.5
Thailand	739	65.4	5.7	5.7	19.1	2.1	2.0	65.4	0.0	0.0	2.0	64.2	67.3
United States	479	52.7	10.7	11.9	19.5	3.8	1.5	52.7	0.2	0.4	0.9	52.6	52.8
INTERNATIONAL AVG	.	51.1	12.7	9.5	16.4	3.8	6.4	51.1	0.4	0.5	5.5	51.2	51.1

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: K12 KEY: C  
 Relate reproductive cell production to population. (Life Science)  
 Difficulty: 570

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	694	17.9	11.1	58.5	10.8	1.7	58.5	0.0	0.4	1.3	58.0	59.0
Austria	377	17.7	17.2	41.4	20.9	2.8	41.4	0.4	0.4	2.1	41.8	42.6
Belgium (Fl)	358	14.1	17.6	56.0	10.5	1.9	56.0	0.0	0.0	1.9	56.6	55.5
Belgium (Fr)	288	20.3	9.2	49.0	10.8	10.7	49.0	0.6	1.2	8.9	50.0	46.5
Bulgaria	288	21.1	14.0	43.4	9.5	12.0	43.4	0.6	1.4	10.0	37.5	49.5
Canada	1013	15.4	15.1	59.9	9.0	0.6	59.9	0.0	0.1	0.5	60.2	59.9
Colombia	332	24.0	11.2	23.5	31.3	9.9	23.5	0.0	3.9	6.0	24.5	22.9
Cyprus	376	15.7	13.5	51.0	14.4	5.4	51.0	0.5	0.6	4.4	49.1	52.9
Czech Republic	424	13.1	8.6	59.2	16.9	2.2	59.2	0.0	0.4	1.8	62.2	56.3
Denmark	271	24.1	16.9	35.6	15.9	7.5	35.6	0.0	0.2	7.4	27.1	43.8
England	227	12.9	17.1	60.0	9.0	1.0	60.0	0.0	0.0	1.0	61.0	58.9
France	371	14.2	12.2	60.5	10.1	3.1	60.5	0.0	0.0	3.1	61.6	59.4
Germany	369	19.7	17.5	43.7	11.3	7.8	43.7	0.5	1.5	5.8	40.2	46.8
Greece	491	19.7	9.6	52.6	14.2	4.0	52.6	0.0	0.4	3.6	53.2	52.0
Hong Kong	424	8.9	11.8	70.8	7.7	0.7	70.8	0.0	0.3	0.5	73.3	68.8
Hungary	383	22.6	13.4	33.9	19.8	10.3	33.9	0.0	0.8	9.5	30.1	38.7
Iceland	246	34.0	25.7	24.9	12.4	2.9	24.9	0.0	0.0	2.9	21.4	27.4
Iran, Islamic Rep.	465	18.0	15.0	33.5	30.3	3.2	33.5	0.1	0.2	2.9	29.2	37.1
Ireland	382	20.1	9.6	55.5	13.1	1.7	55.5	0.3	0.0	1.4	53.3	58.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	8.4	8.6	72.0	10.5	0.4	72.0	0.0	0.2	0.1	76.6	67.9
Korea	379	7.8	8.8	74.5	9.0	0.0	74.5	0.0	0.0	0.0	69.5	78.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	32.7	8.5	30.6	18.7	9.5	30.6	0.0	1.5	8.0	31.3	29.5
Lithuania	317	15.8	7.5	39.4	14.5	22.8	39.4	0.0	2.7	20.1	38.4	40.5
Netherlands	262	13.6	11.8	60.5	12.6	1.5	60.5	0.0	0.0	1.5	60.5	60.8
New Zealand	395	19.1	13.1	52.3	14.1	1.3	52.3	0.3	0.4	0.6	60.2	45.8
Norway	305	23.0	13.7	41.5	14.6	7.3	41.5	0.0	1.0	6.3	39.0	43.8
Philippines	729	13.2	27.4	47.7	10.7	1.0	47.7	0.0	0.1	0.8	49.2	46.2
Portugal	420	18.3	13.2	50.6	16.7	1.2	50.6	0.0	0.0	1.2	45.2	56.3
Romania	463	11.7	6.3	54.0	21.8	6.3	54.0	0.6	0.7	5.0	54.0	53.9
Russian Federation	530	20.5	12.4	42.5	14.3	10.3	42.5	0.0	0.7	9.6	41.6	43.4
Scotland	348	23.2	13.3	53.9	8.0	1.6	53.9	0.7	0.0	1.0	48.6	59.4
Singapore	437	9.2	12.1	73.2	4.0	1.6	73.2	0.0	0.1	1.4	77.2	69.5
Slovak Republic	464	17.8	7.9	50.8	19.4	4.1	50.8	0.9	0.0	3.2	50.0	51.8
Slovenia	356	22.9	11.7	50.3	8.8	6.3	50.3	0.3	0.0	6.0	58.3	42.5
South Africa	682	22.9	14.1	30.9	27.2	5.1	30.9	0.2	1.4	3.5	28.7	34.0
Spain	477	19.1	13.9	51.1	13.4	2.5	51.1	0.0	0.2	2.4	53.8	48.4
Sweden	362	27.7	14.6	41.3	15.4	1.0	41.3	0.0	0.3	0.7	42.1	40.8
Switzerland	500	18.1	15.1	51.6	12.3	2.9	51.6	0.0	0.3	2.6	52.8	50.5
Thailand	739	22.2	19.8	46.1	10.7	1.1	46.1	0.0	0.0	1.1	46.7	44.4
United States	479	17.1	12.7	62.7	6.3	1.2	62.7	0.0	0.4	0.8	61.1	64.6
INTERNATIONAL AVG	.	18.4	13.3	49.8	14.0	4.5	49.8	0.1	0.5	3.8	49.4	50.2

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: K13 KEY: B  
 Identify electrical conductors that form complete circuits. (Physics)  
 Difficulty: 429

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	694	7.0	72.7	5.4	5.8	8.2	1.0	72.7	0.0	0.4	0.5	68.9	76.6
Austria	377	3.1	83.9	5.0	3.2	2.8	2.0	83.9	0.4	0.4	1.3	82.0	86.5
Belgium (Fl)	358	1.4	86.3	2.7	2.4	6.7	0.5	86.3	0.0	0.0	0.5	81.1	90.6
Belgium (Fr)	288	8.6	53.5	12.4	6.6	12.2	6.7	53.5	0.0	1.2	5.5	42.1	66.8
Bulgaria	288	5.0	71.6	7.9	4.8	3.0	7.8	71.6	0.3	1.4	6.1	70.4	73.2
Canada	1013	6.1	75.9	5.8	4.3	7.4	0.5	75.9	0.0	0.1	0.4	68.6	83.2
Colombia	332	17.4	47.2	8.7	6.1	12.9	7.7	47.2	0.0	4.4	3.2	35.0	60.7
Cyprus	376	10.5	64.4	10.7	7.9	4.7	1.8	64.4	0.0	0.6	1.3	60.4	68.1
Czech Republic	424	3.4	86.6	3.3	2.2	3.4	1.1	86.6	0.0	0.4	0.7	82.4	90.6
Denmark	271	10.5	59.8	6.9	9.8	9.7	3.4	59.8	0.0	0.2	3.2	47.1	72.1
England	227	3.4	88.6	2.4	2.1	3.5	0.0	88.6	0.0	0.0	0.0	88.1	89.0
France	371	5.9	67.1	7.1	4.7	13.8	1.4	67.1	0.9	0.0	0.5	60.6	71.1
Germany	369	5.4	77.6	2.6	4.2	5.9	4.3	77.6	0.0	1.5	2.8	75.6	80.6
Greece	491	12.0	62.2	7.9	6.9	8.1	2.9	62.2	0.5	0.4	2.0	56.3	67.5
Hong Kong	424	6.8	78.3	3.7	5.5	5.2	0.5	78.3	0.0	0.3	0.2	77.8	78.7
Hungary	383	4.8	73.7	5.6	6.9	5.9	3.1	73.7	0.0	1.2	2.0	65.5	84.2
Iceland	246	12.2	59.8	12.0	8.2	6.0	1.8	59.8	0.2	0.0	1.6	59.4	60.1
Iran, Islamic Rep.	465	8.5	59.0	11.9	7.3	11.8	1.5	59.0	0.1	0.2	1.3	48.8	67.6
Ireland	382	15.6	55.9	10.8	7.7	9.3	0.6	55.9	0.6	0.0	0.0	45.4	67.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	2.5	88.1	3.5	1.5	4.0	0.4	88.1	0.0	0.2	0.1	86.8	89.3
Korea	379	8.2	86.4	2.7	2.0	0.6	0.0	86.4	0.0	0.0	0.0	82.2	89.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	12.2	54.3	6.0	11.0	8.1	8.4	54.3	0.0	1.5	6.9	41.8	68.3
Lithuania	317	15.6	50.0	6.5	3.7	7.5	16.6	50.0	0.2	2.7	13.7	36.2	64.0
Netherlands	262	4.1	73.9	5.1	6.2	10.3	0.4	73.9	0.0	0.0	0.4	76.2	71.8
New Zealand	395	6.8	74.4	6.1	4.4	7.5	0.9	74.4	0.0	0.4	0.5	70.3	77.8
Norway	305	9.2	64.7	7.9	5.4	9.8	3.0	64.7	0.0	1.7	1.2	56.7	72.1
Philippines	729	9.5	42.1	12.2	6.7	29.1	0.4	42.1	0.0	0.1	0.3	35.9	48.8
Portugal	420	20.4	48.1	9.8	9.4	10.2	2.1	48.1	0.0	0.0	2.1	38.6	58.1
Romania	463	10.9	60.5	6.8	6.7	8.8	6.3	60.5	0.7	0.7	4.9	48.4	75.0
Russian Federation	530	13.5	60.8	6.7	8.2	4.4	6.3	60.8	0.2	1.1	5.0	50.0	72.1
Scotland	348	5.7	70.1	7.0	6.0	10.9	0.3	70.1	0.0	0.0	0.3	64.9	75.2
Singapore	437	2.2	95.0	1.1	0.6	0.8	0.3	95.0	0.0	0.1	0.2	94.4	95.4
Slovak Republic	464	3.9	83.1	4.0	2.7	4.6	1.7	83.1	0.0	0.0	1.7	78.5	88.3
Slovenia	356	6.4	77.9	4.2	6.5	3.3	1.7	77.9	0.3	0.0	1.4	72.6	82.9
South Africa	682	22.7	27.9	26.7	8.6	11.5	2.6	27.9	0.1	1.4	1.1	22.9	35.7
Spain	477	6.1	76.5	6.0	4.7	6.0	0.7	76.5	0.0	0.2	0.5	72.7	80.4
Sweden	362	8.4	75.3	4.0	5.3	6.2	0.8	75.3	0.0	0.3	0.5	67.5	83.1
Switzerland	500	9.6	67.2	6.2	6.4	9.3	1.3	67.2	0.0	0.3	1.1	61.9	71.9
Thailand	739	3.3	73.4	4.3	8.9	8.2	1.9	73.4	0.0	0.0	1.9	73.7	73.6
United States	479	5.3	75.0	6.6	4.5	7.3	1.3	75.0	0.0	0.6	0.7	71.3	79.2
INTERNATIONAL AVG	.	8.4	68.7	6.9	5.7	7.7	2.6	68.7	0.1	0.6	1.9	63.0	74.7

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: K14 KEY: D  
 Relate evaporation rate to surface area. (Physics)  
 Difficulty: 383

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	694	12.0	3.4	2.4	79.2	3.0	79.2	0.0	0.4	2.6	82.3	76.1
Austria	377	5.9	6.0	1.2	82.8	4.1	82.8	0.7	0.4	3.0	85.0	81.5
Belgium (Fl)	358	7.4	1.6	1.5	87.9	1.6	87.9	0.0	0.0	1.6	85.0	90.3
Belgium (Fr)	288	6.5	6.9	1.8	75.5	9.3	75.5	1.5	1.4	6.4	79.9	69.8
Bulgaria	288	3.6	4.4	3.3	80.9	7.7	80.9	0.0	2.1	5.6	80.4	81.5
Canada	1013	9.7	2.9	2.5	81.1	3.8	81.1	0.0	0.1	3.7	80.9	81.8
Colombia	332	27.9	2.4	2.9	49.2	17.6	49.2	0.0	4.6	13.0	50.3	47.5
Cyprus	376	15.0	6.3	5.5	61.2	12.0	61.2	0.4	0.6	11.0	61.5	61.0
Czech Republic	424	16.7	1.8	0.9	77.8	2.7	77.8	0.1	0.4	2.2	76.7	78.8
Denmark	271	17.8	4.9	4.9	65.0	7.5	65.0	0.0	0.2	7.3	67.6	61.4
England	227	10.1	2.0	0.8	83.7	3.4	83.7	0.0	0.0	3.4	83.7	83.7
France	371	6.2	4.5	2.9	82.6	3.8	82.6	1.2	0.0	2.6	83.1	81.5
Germany	369	5.5	5.7	1.6	80.0	7.2	80.0	0.3	1.5	5.4	83.2	76.2
Greece	491	13.2	4.3	3.1	69.1	10.3	69.1	0.0	0.4	9.9	71.1	67.3
Hong Kong	424	3.7	3.8	1.3	85.0	6.2	85.0	0.2	0.3	5.7	88.4	82.2
Hungary	383	6.4	5.9	1.3	78.8	7.5	78.8	0.0	1.3	6.2	78.2	79.6
Iceland	246	14.4	4.4	5.0	70.1	6.2	70.1	0.5	0.0	5.7	74.5	66.8
Iran, Islamic Rep.	465	13.5	2.4	1.6	74.6	8.0	74.6	0.0	0.2	7.8	66.6	80.9
Ireland	382	9.7	6.3	1.2	80.4	2.4	80.4	0.3	0.0	2.1	78.5	82.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	2.9	3.9	1.2	90.6	1.5	90.6	0.0	0.2	1.3	94.6	86.9
Korea	379	1.2	3.1	1.1	94.6	0.0	94.6	0.0	0.0	0.0	94.6	94.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	11.6	2.6	5.1	69.6	11.0	69.6	0.0	1.5	9.5	66.5	72.7
Lithuania	317	11.3	2.9	3.6	61.6	20.6	61.6	0.4	3.0	17.2	59.4	63.8
Netherlands	262	3.9	3.2	1.4	88.4	3.1	88.4	1.1	0.0	2.0	92.4	84.8
New Zealand	395	13.3	4.7	3.6	74.6	3.8	74.6	0.0	0.9	2.9	74.6	74.6
Norway	304	20.5	6.7	4.9	61.3	6.6	61.3	0.0	1.7	4.8	56.2	66.2
Philippines	729	11.4	19.6	14.5	50.8	3.7	50.8	0.0	0.1	3.6	54.4	46.5
Portugal	420	22.3	4.9	4.3	61.5	7.0	61.5	0.0	0.0	7.0	63.5	59.4
Romania	462	8.8	1.6	2.0	77.0	10.6	77.0	1.2	1.1	8.4	77.3	76.6
Russian Federation	530	5.9	2.0	0.8	84.6	6.8	84.6	0.0	1.1	5.7	85.2	83.9
Scotland	348	9.5	5.7	3.7	80.0	1.1	80.0	0.0	0.0	1.1	82.2	77.6
Singapore	437	1.9	1.7	0.4	95.4	0.5	95.4	0.0	0.1	0.4	97.6	93.4
Slovak Republic	463	8.9	2.3	0.6	84.3	3.9	84.3	1.0	0.4	2.5	82.3	86.7
Slovenia	356	9.0	5.9	1.4	79.9	3.8	79.9	0.3	0.0	3.5	75.5	84.0
South Africa	682	9.2	16.5	6.7	45.0	22.6	45.0	0.1	1.4	21.1	41.6	49.3
Spain	477	13.1	5.3	4.0	71.1	6.5	71.1	0.0	0.2	6.3	70.0	72.2
Sweden	362	13.8	5.2	1.5	75.9	3.6	75.9	0.2	0.3	3.2	75.0	77.2
Switzerland	500	10.3	2.6	2.1	80.2	4.8	80.2	0.0	0.3	4.5	78.5	81.7
Thailand	739	7.9	2.8	2.4	84.0	3.0	84.0	0.0	0.1	2.9	85.2	83.0
United States	479	13.4	6.1	4.3	72.2	4.0	72.2	0.0	0.6	3.4	70.8	73.8
INTERNATIONAL AVG	.	10.4	4.7	2.9	75.7	6.3	75.7	0.2	0.7	5.4	75.9	75.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent



Item: K15 KEY: D  
 Know organic origins of fossil fuels. (Earth Science)  
 Difficulty: 526

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	694	20.7	9.4	14.6	53.5	1.8	53.5	0.0	0.6	1.2	55.3	51.7
Austria	377	15.0	5.3	6.6	70.4	2.8	70.4	0.0	0.4	2.4	73.3	68.7
Belgium (Fl)	358	13.9	7.2	8.6	67.3	3.0	67.3	0.0	0.0	3.0	62.6	71.3
Belgium (Fr)	288	14.3	14.8	18.6	39.0	13.3	39.0	0.3	1.6	11.4	35.1	43.1
Bulgaria	288	19.0	4.6	6.0	65.5	4.9	65.5	0.0	2.1	2.8	65.8	66.2
Canada	1013	12.4	6.1	13.6	67.4	0.4	67.4	0.0	0.1	0.3	66.1	69.3
Colombia	332	25.6	4.3	15.1	45.8	9.2	45.8	0.5	4.6	4.1	41.2	50.6
Cyprus	376	24.0	14.1	17.2	41.7	3.0	41.7	0.0	0.6	2.5	40.2	43.2
Czech Republic	424	44.0	3.1	8.3	41.1	3.6	41.1	0.0	0.4	3.3	41.2	40.9
Denmark	271	32.4	7.8	11.8	37.9	10.0	37.9	0.8	0.2	9.1	39.3	36.2
England	227	7.3	4.8	12.2	75.6	0.0	75.6	0.0	0.0	0.0	79.6	71.9
France	371	19.6	12.6	24.0	36.0	7.7	36.0	0.7	0.4	6.7	32.3	39.6
Germany	369	23.7	5.0	5.9	56.4	8.9	56.4	0.4	1.5	7.0	52.4	61.0
Greece	491	50.3	6.3	20.5	18.5	4.4	18.5	0.3	0.4	3.7	14.0	22.6
Hong Kong	424	8.1	5.2	13.6	72.6	0.5	72.6	0.2	0.3	0.0	73.2	72.1
Hungary	383	37.2	5.8	9.3	42.0	5.7	42.0	0.0	1.3	4.4	36.8	48.7
Iceland	246	28.7	11.3	15.9	41.7	2.3	41.7	0.0	0.2	2.1	45.6	38.9
Iran, Islamic Rep.	465	15.9	7.0	8.4	68.2	0.4	68.2	0.0	0.2	0.2	68.1	68.1
Ireland	382	3.6	6.2	6.4	83.6	0.3	83.6	0.0	0.0	0.3	81.9	85.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	32.4	4.9	12.4	49.4	0.9	49.4	0.0	0.2	0.7	50.0	48.8
Korea	379	9.2	3.1	12.4	75.2	0.0	75.2	0.0	0.0	0.0	73.8	76.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	28.4	2.4	21.2	37.4	10.6	37.4	0.0	1.5	9.1	34.2	40.6
Lithuania	317	28.8	3.1	8.7	36.5	22.8	36.5	0.0	4.5	18.3	34.6	38.4
Netherlands	262	18.0	3.6	10.5	61.2	6.7	61.2	0.0	0.0	6.7	59.4	62.5
New Zealand	395	20.2	10.3	21.8	46.0	1.7	46.0	0.0	0.9	0.8	47.3	44.9
Norway	304	27.8	5.3	8.6	54.8	3.6	54.8	0.0	1.7	1.9	52.1	57.3
Philippines	729	11.1	17.6	20.6	50.1	0.7	50.1	0.0	0.1	0.5	53.1	46.5
Portugal	420	9.3	5.6	6.4	76.0	2.6	76.0	0.0	0.2	2.3	78.2	73.7
Romania	461	21.8	6.2	10.2	55.0	6.9	55.0	1.4	1.1	4.4	53.8	56.4
Russian Federation	530	21.8	4.9	11.5	56.0	5.9	56.0	0.1	1.2	4.5	53.3	58.7
Scotland	348	14.6	9.0	17.8	56.6	2.0	56.6	0.0	0.0	2.0	56.0	56.8
Singapore	437	8.1	1.8	6.0	83.3	0.8	83.3	0.0	0.1	0.7	81.8	84.6
Slovak Republic	463	52.4	4.1	5.3	33.6	4.6	33.6	0.8	0.4	3.4	38.1	28.5
Slovenia	356	22.9	4.6	5.5	63.6	3.4	63.6	0.6	0.0	2.8	57.7	69.0
South Africa	682	19.4	31.1	18.7	27.4	3.4	27.4	0.2	1.4	1.8	28.9	25.6
Spain	477	17.0	9.0	12.8	60.2	1.1	60.2	0.0	0.2	0.9	59.3	61.1
Sweden	362	16.5	7.6	10.7	64.1	1.0	64.1	0.0	0.3	0.8	61.8	66.6
Switzerland	500	29.7	7.1	12.8	47.6	2.8	47.6	0.3	0.3	2.2	46.5	48.6
Thailand	739	39.3	5.8	9.6	43.9	1.4	43.9	0.2	0.1	1.2	39.7	49.4
United States	479	10.7	7.3	14.4	65.3	2.3	65.3	0.0	0.8	1.4	63.3	67.6
INTERNATIONAL AVG	.	21.9	7.4	12.4	54.2	4.2	54.2	0.2	0.7	3.3	53.2	55.3

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: K16 KEY: A  
 Identify common product made with bacteria. (Life Science)  
 Difficulty: 665

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	694	28.0	12.0	27.5	31.6	0.9	28.0	0.0	0.6	0.3	27.3	28.7
Austria	377	16.7	29.3	32.1	17.1	4.8	16.7	1.2	0.4	3.2	19.9	13.3
Belgium (Fl)	358	15.5	6.9	35.5	41.0	1.0	15.5	0.0	0.0	1.0	14.0	16.8
Belgium (Fr)	288	18.0	7.4	35.8	27.4	11.4	18.0	0.3	1.6	9.5	14.2	22.7
Bulgaria	288	62.6	5.9	20.7	5.0	5.9	62.6	0.0	2.1	3.7	58.2	68.3
Canada	1013	41.6	12.1	18.8	26.7	0.8	41.6	0.0	0.1	0.7	46.5	36.8
Colombia	332	18.5	12.3	34.1	25.1	10.0	18.5	0.4	4.6	5.0	13.6	24.1
Cyprus	376	35.8	10.2	37.3	12.3	4.5	35.8	0.2	0.6	3.7	32.6	38.8
Czech Republic	424	27.0	14.9	36.1	19.2	2.8	27.0	1.1	0.4	1.3	24.9	29.1
Denmark	271	14.4	7.6	38.5	32.6	6.8	14.4	0.0	0.2	6.7	12.3	16.7
England	227	35.6	13.3	23.2	27.0	0.9	35.6	0.0	0.0	0.9	34.4	36.7
France	371	14.5	21.4	33.5	23.6	7.1	14.5	1.0	0.6	5.5	15.6	14.1
Germany	369	29.6	26.5	22.6	9.9	11.4	29.6	3.8	1.5	6.2	27.1	32.8
Greece	491	17.5	13.8	50.5	13.8	4.4	17.5	0.4	0.4	3.6	15.1	19.7
Hong Kong	424	83.1	7.4	5.2	3.2	1.2	83.1	0.4	0.3	0.5	84.5	81.9
Hungary	383	22.4	16.7	32.7	21.3	7.0	22.4	0.0	1.3	5.7	23.1	21.5
Iceland	246	43.9	17.9	22.4	14.5	1.2	43.9	0.6	0.2	0.4	46.5	42.0
Iran, Islamic Rep.	465	15.2	8.7	52.7	21.3	2.1	15.2	0.1	0.2	1.8	6.5	22.3
Ireland	382	19.0	13.5	27.6	39.7	0.3	19.0	0.0	0.0	0.3	18.4	19.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	61.9	4.1	20.8	12.7	0.4	61.9	0.2	0.2	0.0	61.0	62.8
Korea	379	77.5	5.1	11.7	5.7	0.0	77.5	0.0	0.0	0.0	73.6	80.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	29.2	14.0	42.5	9.7	4.6	29.2	0.0	1.5	3.1	26.5	31.3
Lithuania	317	15.1	23.7	39.5	8.3	13.4	15.1	1.0	4.9	7.6	17.1	13.1
Netherlands	262	43.2	12.5	23.1	17.9	3.4	43.2	0.3	0.0	3.1	42.4	44.2
New Zealand	395	28.0	11.0	30.1	28.6	2.3	28.0	0.0	0.9	1.4	27.8	28.2
Norway	304	19.0	5.7	36.6	32.4	6.2	19.0	0.0	1.7	4.5	14.9	22.9
Philippines	729	40.1	12.1	24.3	22.1	1.5	40.1	0.0	0.1	1.4	40.1	39.8
Portugal	420	23.4	8.5	36.0	29.3	2.8	23.4	0.0	0.2	2.5	20.2	26.7
Romania	459	37.1	9.3	34.2	9.3	10.1	37.1	5.3	1.1	3.7	39.8	33.7
Russian Federation	530	48.3	21.4	22.5	2.6	5.3	48.3	0.8	1.7	2.8	48.8	47.8
Scotland	348	15.4	13.6	28.8	40.5	1.7	15.4	0.5	0.0	1.1	14.0	17.0
Singapore	437	49.8	11.1	27.2	11.3	0.7	49.8	0.0	0.1	0.6	46.7	52.5
Slovak Republic	463	21.7	15.8	42.8	15.5	4.1	21.7	2.3	0.4	1.4	20.2	23.4
Slovenia	356	34.7	27.1	24.0	10.5	3.7	34.7	1.5	0.0	2.3	35.1	34.5
South Africa	682	22.0	18.9	24.5	29.3	5.3	22.0	0.4	1.4	3.5	20.6	23.7
Spain	477	31.4	20.6	26.0	19.1	2.8	31.4	0.0	0.2	2.7	29.9	32.9
Sweden	362	26.4	8.1	40.0	24.6	0.8	26.4	0.0	0.3	0.5	24.7	28.2
Switzerland	500	25.1	10.9	41.5	19.5	3.1	25.1	1.0	0.3	1.7	23.7	26.3
Thailand	739	76.3	8.6	10.7	3.4	1.0	76.3	0.1	0.1	0.8	77.8	74.4
United States	479	39.2	14.3	21.8	22.9	1.9	39.2	0.3	0.8	0.7	36.6	42.1
INTERNATIONAL AVG	.	33.1	13.4	29.9	19.7	4.0	33.1	0.6	0.8	2.6	31.9	34.3

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: K17 KEY: D  
 Relate presence of gravitational force to position of falling object. (Physics)  
 Difficulty: 571

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	694	7.0	26.8	10.2	55.3	0.6	55.3	0.0	0.6	0.1	52.4	58.3
Austria	377	7.8	29.2	10.1	51.2	1.8	51.2	0.0	0.4	1.4	51.0	52.0
Belgium (Fl)	358	9.0	20.1	7.3	62.7	0.9	62.7	0.0	0.0	0.9	59.3	65.6
Belgium (Fr)	288	7.7	15.4	19.6	48.1	9.2	48.1	0.0	1.6	7.7	50.0	46.8
Bulgaria	288	9.6	35.7	8.7	36.9	9.1	36.9	0.0	2.8	6.3	38.9	35.7
Canada	1013	8.1	26.3	6.3	59.1	0.2	59.1	0.1	0.1	0.0	55.1	64.0
Colombia	332	9.2	23.7	16.4	42.5	8.3	42.5	0.5	4.8	2.9	37.5	48.3
Cyprus	376	16.6	32.9	21.9	25.4	3.1	25.4	0.0	1.0	2.2	26.1	24.7
Czech Republic	424	1.3	11.8	1.7	84.1	1.2	84.1	0.2	0.4	0.6	84.5	83.7
Denmark	271	13.8	23.5	12.9	46.5	3.3	46.5	0.2	0.2	3.0	41.2	50.8
England	227	6.3	32.7	10.2	50.7	0.0	50.7	0.0	0.0	0.0	40.1	60.8
France	371	12.5	36.1	12.0	36.4	3.0	36.4	0.5	0.6	1.9	37.2	36.1
Germany	369	9.6	36.0	4.8	46.1	3.5	46.1	0.3	1.5	1.7	43.6	48.7
Greece	491	13.4	44.9	11.3	27.7	2.7	27.7	0.3	0.4	2.0	26.9	28.4
Hong Kong	424	2.4	19.9	8.3	68.7	0.7	68.7	0.0	0.3	0.5	71.1	66.6
Hungary	383	2.7	19.9	6.7	68.6	2.1	68.6	0.0	1.5	0.6	65.4	72.7
Iceland	246	9.4	31.5	14.6	41.3	3.3	41.3	0.0	0.2	3.1	41.0	41.5
Iran, Islamic Rep.	465	9.5	21.5	16.4	50.9	1.7	50.9	0.0	0.4	1.3	58.2	44.6
Ireland	382	10.8	31.3	8.1	49.3	0.5	49.3	0.0	0.0	0.5	44.7	54.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	4.2	28.1	8.0	59.3	0.4	59.3	0.0	0.2	0.2	56.1	62.2
Korea	379	8.7	19.0	9.3	62.8	0.2	62.8	0.0	0.0	0.2	65.6	60.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	12.0	18.1	24.6	35.5	9.9	35.5	0.0	2.0	7.9	31.9	39.2
Lithuania	317	9.9	19.2	12.4	46.5	12.0	46.5	0.0	5.2	6.8	41.4	51.6
Netherlands	262	9.2	39.8	8.6	41.3	1.1	41.3	0.0	0.0	1.1	36.4	45.7
New Zealand	395	13.4	29.6	9.0	47.1	0.9	47.1	0.0	0.9	0.0	42.5	50.9
Norway	304	16.3	25.4	11.3	43.5	3.5	43.5	0.0	1.7	1.7	39.0	47.7
Philippines	729	6.9	24.4	18.7	48.8	1.2	48.8	0.0	0.1	1.1	49.5	48.0
Portugal	420	9.8	33.8	12.3	42.8	1.4	42.8	0.0	0.2	1.1	39.9	45.8
Romania	463	11.4	25.7	11.6	45.7	5.6	45.7	0.8	1.1	3.7	46.6	44.6
Russian Federation	530	7.3	32.7	8.7	47.8	3.5	47.8	0.0	1.7	1.9	46.3	49.4
Scotland	348	13.7	35.0	12.4	38.8	0.0	38.8	0.0	0.0	0.0	38.8	39.2
Singapore	437	3.0	42.9	3.5	50.0	0.5	50.0	0.0	0.1	0.3	48.0	51.9
Slovak Republic	463	3.0	13.0	4.6	77.4	1.9	77.4	0.2	0.6	1.2	74.0	81.3
Slovenia	356	6.8	33.9	5.6	52.8	1.0	52.8	0.3	0.0	0.7	51.3	54.5
South Africa	682	17.7	23.2	21.9	34.2	3.0	34.2	0.1	1.6	1.3	32.1	37.9
Spain	477	11.1	29.6	10.6	47.7	1.1	47.7	0.0	0.3	0.8	45.8	49.7
Sweden	362	14.0	31.7	16.1	37.3	0.8	37.3	0.0	0.3	0.5	37.6	37.3
Switzerland	500	14.1	28.5	12.7	41.7	3.0	41.7	0.1	0.3	2.6	42.5	40.9
Thailand	739	7.3	23.4	9.6	58.5	1.1	58.5	0.2	0.1	0.9	58.1	59.4
United States	479	6.6	28.0	8.3	55.2	1.8	55.2	0.0	0.8	1.0	54.8	55.7
INTERNATIONAL AVG	.	9.3	27.6	11.2	49.2	2.7	49.2	0.1	0.8	1.8	47.6	50.9

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: K18 KEY: A  
 Identify main function of chloroplasts in plant cell. (Life Science)  
 Difficulty: 557

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	694	48.9	15.9	19.0	13.4	2.8	48.9	0.0	0.6	2.2	47.1	50.7
Austria	377	49.9	20.6	13.5	12.2	3.8	49.9	0.4	0.4	3.1	51.1	48.7
Belgium (Fl)	358	46.3	29.3	8.1	12.6	3.7	46.3	0.6	0.0	3.1	41.3	50.6
Belgium (Fr)	288	37.7	17.8	15.7	11.1	17.7	37.7	0.4	1.6	15.7	40.6	34.7
Bulgaria	288	57.4	9.3	14.1	5.4	13.7	57.4	0.3	4.4	9.0	58.9	56.0
Canada	1013	43.7	19.5	23.4	12.7	0.7	43.7	0.0	0.1	0.6	45.1	42.5
Colombia	332	38.0	12.5	20.1	19.6	9.9	38.0	1.4	5.2	3.3	32.1	44.5
Cyprus	376	51.1	11.5	16.3	17.7	3.3	51.1	0.0	1.0	2.4	54.4	48.0
Czech Republic	424	51.1	20.7	14.9	9.8	3.4	51.1	0.0	0.5	2.9	48.6	53.5
Denmark	271	49.8	10.3	14.5	10.3	15.1	49.8	0.0	0.8	14.2	53.4	44.8
England	227	55.0	12.3	18.5	12.1	2.1	55.0	0.0	0.0	2.1	51.3	58.6
France	371	45.5	15.0	20.0	11.6	7.8	45.5	0.3	0.6	7.0	42.0	48.4
Germany	369	48.1	14.7	7.7	11.3	18.2	48.1	0.6	1.8	15.8	52.8	43.4
Greece	491	48.2	12.3	22.0	11.6	5.9	48.2	0.0	0.4	5.5	49.3	47.2
Hong Kong	424	85.2	6.9	5.8	1.9	0.3	85.2	0.0	0.3	0.0	86.0	84.5
Hungary	383	24.7	18.5	20.7	20.4	15.7	24.7	0.0	1.8	13.9	24.0	25.5
Iceland	246	41.9	19.1	20.9	14.7	3.5	41.9	0.2	1.1	2.2	42.3	41.5
Iran, Islamic Rep.	465	43.0	21.1	13.0	20.0	2.9	43.0	0.0	0.8	2.1	40.6	44.7
Ireland	382	41.3	16.0	16.1	24.8	1.7	41.3	0.0	0.0	1.7	40.6	42.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	85.5	4.6	6.0	3.2	0.7	85.5	0.0	0.2	0.4	84.7	86.2
Korea	379	78.2	3.2	9.9	8.0	0.8	78.2	0.0	0.0	0.8	76.4	79.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	314	33.1	14.0	13.3	27.4	12.3	33.1	0.0	3.9	8.4	30.3	35.4
Lithuania	317	54.6	7.2	5.3	11.3	21.7	54.6	0.4	6.6	14.8	57.5	51.6
Netherlands	262	67.7	12.2	9.7	7.9	2.4	67.7	0.4	0.0	2.0	69.4	66.1
New Zealand	395	42.2	21.6	20.1	12.8	3.3	42.2	0.0	0.9	2.4	42.9	41.6
Norway	304	37.3	14.8	23.7	14.0	10.1	37.3	0.0	3.3	6.8	35.8	38.7
Philippines	729	39.2	20.7	29.6	9.2	1.2	39.2	0.0	0.5	0.7	42.4	35.8
Portugal	420	35.9	12.7	18.4	27.4	5.6	35.9	0.0	0.5	5.2	33.8	38.0
Romania	463	53.6	6.3	8.2	19.1	12.8	53.6	1.7	1.6	9.5	55.5	51.3
Russian Federation	530	75.3	8.3	3.7	5.3	7.4	75.3	0.0	2.1	5.3	75.0	75.6
Scotland	348	39.6	14.9	20.3	22.8	2.5	39.6	0.0	0.0	2.5	40.7	38.4
Singapore	437	55.6	8.7	15.3	19.2	1.3	55.6	0.0	0.1	1.2	60.2	51.4
Slovak Republic	463	42.8	18.5	17.0	12.5	9.1	42.8	0.7	1.1	7.3	41.4	44.4
Slovenia	356	67.4	8.1	12.5	8.4	3.6	67.4	0.0	0.4	3.1	70.0	65.3
South Africa	682	25.7	18.7	22.4	28.8	4.3	25.7	0.4	1.9	2.0	22.9	29.7
Spain	477	45.8	24.0	13.8	11.3	5.1	45.8	0.0	0.6	4.4	47.0	44.6
Sweden	362	50.0	12.2	20.0	15.6	2.1	50.0	0.0	0.5	1.6	43.7	56.3
Switzerland	500	47.4	20.6	15.5	10.9	5.5	47.4	0.0	0.5	5.0	52.2	43.3
Thailand	739	48.1	8.6	16.0	26.3	1.1	48.1	0.0	0.2	0.8	51.8	42.8
United States	479	52.2	19.8	20.2	6.1	1.8	52.2	0.0	0.8	0.9	47.4	57.6
INTERNATIONAL AVG	.	49.6	14.6	15.6	14.0	6.2	49.6	0.2	1.2	4.8	49.6	49.6

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: K19  
 Write an example of how computers are used to do work. (Environment and other content)  
 Difficulty: 442

COUNTRY	N	NOT REACHED												OMIT	1.GIRL		2.BOY		
		10	11	12	13	14	19	70	71	76	79	90	99		V1	% Right	% Right		
Australia	694	33.2	4.6	18.0	3.5	10.9	11.6	0.5	1.3	0.0	8.3	1.2	7.1	81.7	0.6	6.4	84.0	79.4	
Austria	377	6.6	15.5	17.4	1.8	12.3	11.7	0.0	0.3	0.0	17.6	1.3	15.4	65.3	0.8	14.6	72.0	57.4	
Belgium (Fl)	358	5.6	10.9	51.3	0.3	1.5	16.7	0.0	5.2	0.0	3.6	0.5	4.3	86.3	0.0	4.3	90.7	82.7	
Belgium (Fr)	288	0.0	0.0	0.0	0.0	0.0	57.4	0.0	0.0	0.0	18.7	0.0	23.9	57.4	2.6	21.3	58.8	55.5	
Bulgaria	288	3.3	14.1	19.4	3.1	0.7	10.6	1.0	1.1	0.6	6.0	2.8	37.4	51.2	6.3	31.0	54.6	46.8	
Canada	1013	26.5	8.3	27.8	2.7	6.7	16.9	0.0	1.4	0.0	4.4	0.5	4.7	88.9	0.2	4.5	88.9	89.3	
Colombia	332	6.2	3.2	20.3	0.0	5.1	11.3	0.0	1.6	1.6	27.8	0.0	23.0	46.0	5.9	17.1	44.6	48.5	
Cyprus	376	4.4	18.4	16.4	1.3	1.3	3.5	0.3	0.0	0.0	11.1	0.2	43.0	45.4	1.8	41.2	46.0	44.9	
Czech Republic	424	7.7	9.6	38.6	1.8	3.7	15.8	0.2	3.8	4.4	7.2	0.6	6.7	77.1	0.6	6.1	76.5	77.8	
Denmark	271	17.4	6.8	20.3	0.2	19.2	5.2	0.3	7.5	1.9	4.9	0.9	15.3	69.2	1.0	14.3	69.6	68.0	
England	227	13.5	7.6	40.9	5.3	8.2	16.0	0.0	1.4	0.0	2.2	1.6	3.2	91.5	0.0	3.2	93.4	89.7	
France	371	12.6	6.1	15.5	1.9	5.0	8.3	0.7	7.3	0.7	7.9	5.3	28.7	49.3	0.9	27.9	56.9	40.5	
Germany	368	9.5	13.1	22.4	3.4	5.2	14.3	0.0	2.6	0.0	4.8	0.6	24.1	67.9	3.1	21.0	68.8	67.6	
Greece	491	5.9	13.8	24.9	0.6	2.6	10.6	0.2	2.8	3.0	9.9	3.1	22.7	58.4	1.9	20.8	58.6	58.2	
Hong Kong	424	0.2	11.4	45.4	1.4	4.7	15.0	1.0	2.1	0.2	2.0	0.7	15.9	78.1	0.3	15.6	83.4	73.6	
Hungary	383	3.7	5.7	35.0	0.7	0.4	26.6	0.2	7.7	0.7	2.7	2.2	14.6	72.0	3.2	11.3	73.5	70.1	
Iceland	246	10.4	15.6	27.9	0.2	8.0	6.3	0.0	7.3	0.8	12.2	1.1	10.2	68.4	1.1	9.1	73.6	64.6	
Iran, Islamic Rep.	465	0.8	14.2	3.7	3.7	0.1	10.6	0.3	10.2	0.0	22.9	0.5	33.2	33.0	1.1	32.0	37.6	29.4	
Ireland	382	9.3	4.9	48.3	2.0	12.5	12.3	0.0	2.9	0.0	3.5	0.5	3.7	89.4	0.0	3.7	90.6	87.9	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	14.0	10.7	17.4	1.5	8.2	18.9	0.7	8.8	1.2	10.2	2.7	5.9	70.6	0.2	5.6	73.7	67.7	
Korea	379	10.9	24.8	26.3	0.5	4.7	16.4	1.4	5.1	0.0	6.4	0.0	3.6	83.6	0.0	3.6	86.2	81.7	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	318	6.9	13.3	15.8	0.5	4.0	8.3	0.0	7.3	2.9	10.2	1.6	29.3	48.8	5.2	24.1	46.9	51.1	
Lithuania	317	0.5	7.7	21.4	1.0	8.5	4.8	0.0	1.2	0.0	6.2	9.6	39.2	43.8	11.5	27.6	43.7	43.9	
Netherlands	262	16.5	10.7	36.7	0.4	10.4	9.9	0.0	0.0	0.0	11.6	1.2	2.6	84.7	0.0	2.6	86.3	83.1	
New Zealand	394	27.4	5.1	21.9	0.6	11.2	17.6	0.0	2.7	0.0	4.2	1.3	8.1	83.7	2.2	5.9	89.2	79.2	
Norway	304	12.3	4.2	36.0	0.8	22.7	6.0	0.2	2.7	0.0	0.3	1.9	12.9	82.0	4.2	8.7	85.1	79.1	
Philippines	725	7.7	9.4	2.3	3.7	0.1	12.3	0.0	1.0	3.4	29.1	2.9	28.0	35.6	0.7	27.3	39.1	31.8	
Portugal	420	6.3	6.2	17.3	3.5	3.2	13.2	0.3	9.7	3.0	13.2	5.8	18.3	49.7	0.8	17.5	48.6	50.8	
Romania	463	2.0	34.2	8.3	1.3	0.7	9.6	0.2	0.6	1.6	5.9	0.7	34.8	56.3	4.4	30.4	54.5	58.4	
Russian Federation	530	1.0	24.6	16.9	1.2	8.4	9.5	0.3	1.0	1.2	4.2	5.2	26.6	61.6	2.9	23.7	60.0	63.2	
Scotland	348	18.7	9.1	36.1	4.4	3.3	11.7	0.0	0.8	0.0	9.2	0.5	6.1	83.3	0.0	6.1	85.5	80.8	
Singapore	437	6.1	4.7	50.0	6.4	2.1	20.4	0.0	0.0	0.5	4.9	0.0	5.1	89.6	0.1	4.9	92.7	86.8	
Slovak Republic	463	5.0	8.3	21.8	4.1	8.6	28.1	0.7	1.1	2.2	5.0	1.0	13.9	76.0	2.1	11.9	73.1	79.3	
Slovenia	356	7.8	22.6	23.0	3.1	8.3	11.5	0.0	0.8	0.4	6.2	1.3	15.0	76.3	1.3	13.7	78.1	75.0	
South Africa	682	4.3	1.9	12.4	3.2	0.4	6.8	0.6	2.1	1.2	17.4	3.2	46.4	29.1	3.0	43.4	27.5	31.4	
Spain	477	9.7	6.6	33.1	3.4	7.1	5.9	0.5	1.4	1.2	16.2	1.0	13.8	65.9	1.2	12.6	63.1	68.6	
Sweden	362	15.2	7.2	25.1	1.8	14.9	14.9	0.3	2.9	0.8	9.2	1.1	6.9	78.9	0.5	6.4	74.8	83.3	
Switzerland	500	13.0	13.4	21.7	1.6	9.4	12.7	0.2	4.9	0.3	4.1	2.7	15.9	71.8	0.6	15.4	70.5	73.0	
Thailand	739	5.5	6.7	36.1	3.5	2.6	21.9	0.7	2.1	0.2	8.6	3.0	9.1	76.3	0.8	8.3	79.4	71.3	
United States	479	22.2	5.5	30.6	4.6	6.9	17.1	0.0	1.2	0.0	4.9	0.8	6.2	86.9	0.8	5.3	91.2	82.0	
INTERNATIONAL AVG	.	9.8	10.5	25.1	2.1	6.3	14.0	0.3	3.1	0.8	9.1	1.8	17.1	67.8	1.9	15.3	69.3	66.3	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: L01 KEY: E  
 Select diagram showing forces resulting in rotation. (Physics)  
 Difficulty: 600

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	696	18.9	7.1	15.8	5.8	48.2	4.1	48.2	0.0	0.0	4.1	44.5	52.6
Austria	378	16.7	9.3	14.9	4.1	51.6	3.4	51.6	0.9	0.0	2.5	47.6	55.0
Belgium (Fl)	352	18.8	5.3	11.1	10.0	48.2	6.6	48.2	0.0	0.0	6.6	44.4	51.9
Belgium (Fr)	295	19.1	6.0	11.1	7.9	39.6	16.3	39.6	0.6	0.6	15.1	36.1	42.8
Bulgaria	159	17.1	8.7	10.7	4.3	46.4	12.9	46.4	0.0	0.0	12.9	38.6	54.1
Canada	1022	22.8	8.2	16.4	5.8	45.5	1.3	45.5	0.0	0.0	1.3	39.9	51.2
Colombia	330	30.9	8.0	21.5	7.4	25.2	7.0	25.2	0.0	0.9	6.1	16.5	33.8
Cyprus	375	20.9	10.3	19.9	12.2	30.6	6.1	30.6	0.3	0.0	5.8	28.8	32.3
Czech Republic	410	18.0	5.1	8.7	2.9	63.5	1.8	63.5	0.6	0.0	1.2	55.9	71.9
Denmark	272	10.3	18.3	8.6	5.9	45.7	11.2	45.7	0.3	0.0	10.8	41.4	48.8
England	216	15.1	8.4	16.6	5.1	51.7	3.2	51.7	0.0	0.0	3.2	48.0	54.6
France	365	23.4	5.8	11.6	6.0	43.6	9.6	43.6	0.9	0.3	8.4	36.8	51.9
Germany	361	17.3	9.0	8.6	6.2	42.6	16.4	42.6	1.0	0.2	15.1	32.3	54.5
Greece	501	21.9	6.2	19.0	7.1	34.3	11.5	34.3	0.4	0.0	11.0	29.2	39.3
Hong Kong	423	10.7	15.4	13.9	10.7	49.3	0.0	49.3	0.0	0.0	0.0	48.5	49.8
Hungary	382	7.1	21.2	5.3	9.6	52.6	4.2	52.6	0.0	0.0	4.2	48.2	57.1
Iceland	247	26.5	3.5	19.4	10.5	36.8	3.4	36.8	0.0	0.0	3.4	32.5	40.8
Iran, Islamic Rep.	445	24.3	9.2	31.4	5.5	24.4	5.2	24.4	0.1	0.0	5.1	26.0	23.0
Ireland	375	13.0	12.3	11.0	10.7	48.8	4.1	48.8	0.2	0.0	3.9	47.5	50.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	9.2	5.0	8.9	5.7	70.3	0.9	70.3	0.3	0.0	0.6	64.0	76.0
Korea	360	18.5	2.8	6.6	4.5	67.5	0.0	67.5	0.0	0.0	0.0	58.0	74.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	16.4	8.8	17.2	4.8	33.1	19.8	33.1	0.0	0.4	19.4	31.3	35.3
Lithuania	321	16.4	4.2	14.2	3.0	25.4	36.9	25.4	0.0	0.7	36.2	18.3	32.9
Netherlands	271	22.7	4.9	16.5	10.2	40.4	5.4	40.4	0.0	0.4	5.0	38.9	42.0
New Zealand	395	13.3	10.7	17.4	6.5	50.3	1.7	50.3	0.2	0.0	1.5	50.3	50.4
Norway	305	8.7	22.8	13.6	6.8	40.1	7.9	40.1	0.0	0.5	7.5	36.4	43.5
Philippines	727	29.3	11.8	28.2	6.2	24.5	0.0	24.5	0.0	0.0	0.0	27.1	21.8
Portugal	406	26.2	6.3	14.8	9.3	33.1	10.4	33.1	0.0	0.0	10.4	28.1	37.8
Romania	457	18.0	6.7	17.5	5.5	44.5	7.8	44.5	2.1	0.4	5.3	41.7	47.6
Russian Federation	522	17.5	6.2	11.2	7.3	49.3	8.5	49.3	0.0	0.2	8.3	45.7	52.8
Scotland	356	14.2	10.6	17.9	11.9	42.1	3.3	42.1	0.0	0.0	3.3	38.0	46.4
Singapore	482	11.8	11.0	14.7	7.3	52.8	2.5	52.8	0.0	0.2	2.3	44.1	61.6
Slovak Republic	440	17.8	9.7	6.5	4.7	59.2	2.2	59.2	0.6	0.0	1.6	53.7	65.3
Slovenia	351	21.0	10.5	7.1	5.0	50.2	6.1	50.2	1.7	0.0	4.4	41.3	59.7
South Africa	678	17.6	9.6	34.2	12.8	19.1	6.8	19.1	0.6	2.7	3.5	18.3	20.3
Spain	462	25.1	8.1	14.0	4.2	42.7	5.9	42.7	0.0	0.0	5.9	37.1	48.2
Sweden	364	12.7	19.7	15.8	5.7	42.8	3.3	42.8	0.0	0.0	3.3	32.2	52.7
Switzerland	508	14.2	10.1	12.9	8.8	48.9	5.1	48.9	0.1	0.0	5.0	42.8	54.6
Thailand	726	41.5	3.6	17.5	4.5	31.6	1.2	31.6	0.0	0.3	0.9	29.0	35.5
United States	490	17.1	11.6	19.5	8.1	42.7	1.0	42.7	0.0	0.0	1.0	40.3	45.1
INTERNATIONAL AVG	.	18.5	9.3	15.0	7.0	43.5	6.6	43.5	0.3	0.2	6.2	39.0	48.0

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: L02 KEY: B  
 Select reason why algae are close to ocean surface. (Life Science)  
 Difficulty: 574

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	696	22.6	48.1	19.8	8.0	1.4	48.1	0.0	0.0	1.4	41.4	56.1
Austria	378	6.5	72.5	11.7	6.8	2.4	72.5	1.3	0.0	1.1	72.6	72.6
Belgium (Fl)	352	6.8	39.7	43.5	7.9	2.1	39.7	0.0	0.0	2.1	34.8	44.5
Belgium (Fr)	295	10.7	50.6	20.3	12.3	6.0	50.6	0.0	0.6	5.4	47.8	54.1
Bulgaria	159	18.0	54.8	15.7	3.3	8.3	54.8	2.6	0.0	5.6	53.5	56.1
Canada	1022	16.4	42.7	28.2	11.0	1.7	42.7	0.2	0.0	1.5	39.7	46.0
Colombia	330	17.6	27.8	27.0	23.9	3.7	27.8	0.0	0.9	2.9	17.3	37.4
Cyprus	375	15.6	35.7	36.6	8.7	3.4	35.7	0.7	0.0	2.7	33.2	38.0
Czech Republic	410	8.2	66.7	15.4	9.1	0.5	66.7	0.2	0.0	0.3	61.3	72.7
Denmark	272	14.5	48.1	21.4	11.0	5.1	48.1	0.6	0.0	4.4	44.6	52.1
England	216	13.8	42.3	27.3	15.2	1.5	42.3	0.0	0.0	1.5	34.7	48.2
France	365	11.0	51.3	24.0	10.3	3.4	51.3	0.3	0.3	2.8	48.5	53.9
Germany	361	15.7	59.8	12.8	7.6	4.2	59.8	2.4	0.2	1.6	58.5	60.3
Greece	501	12.2	47.3	27.6	10.4	2.4	47.3	0.2	0.0	2.2	46.9	47.7
Hong Kong	423	13.9	40.8	37.2	8.0	0.0	40.8	0.0	0.0	0.0	35.3	45.1
Hungary	382	9.3	59.9	21.2	5.4	4.2	59.9	0.0	0.0	4.2	51.7	68.3
Iceland	247	13.3	32.0	42.6	10.6	1.5	32.0	0.2	0.0	1.3	22.4	40.9
Iran, Islamic Rep.	445	28.7	29.2	14.1	27.5	0.5	29.2	0.0	0.0	0.5	25.2	32.2
Ireland	375	15.8	37.2	29.3	16.3	1.4	37.2	0.0	0.0	1.4	33.4	41.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	5.1	74.9	17.9	1.7	0.4	74.9	0.1	0.0	0.3	73.5	76.2
Korea	360	8.6	63.3	23.5	4.6	0.0	63.3	0.0	0.0	0.0	60.7	65.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	32.6	35.4	21.3	6.3	4.5	35.4	0.0	0.4	4.0	32.6	38.7
Lithuania	321	30.7	39.3	13.6	8.5	7.9	39.3	1.1	1.0	5.9	40.3	38.2
Netherlands	271	10.7	36.6	41.4	9.6	1.7	36.6	0.0	0.4	1.3	37.1	36.1
New Zealand	395	13.6	36.4	35.6	12.5	1.9	36.4	0.0	0.0	1.9	30.2	41.4
Norway	305	11.0	40.8	36.9	8.9	2.5	40.8	0.0	0.5	2.0	42.0	39.6
Philippines	727	20.2	12.7	43.2	23.7	0.3	12.7	0.0	0.0	0.3	13.8	11.5
Portugal	406	12.1	44.4	19.6	20.3	3.6	44.4	0.0	0.0	3.6	36.3	52.0
Romania	457	11.4	42.8	18.3	20.2	7.3	42.8	2.4	0.4	4.5	41.5	44.2
Russian Federation	522	16.4	52.6	17.8	9.1	4.0	52.6	0.4	0.2	3.4	48.0	57.1
Scotland	356	18.5	29.5	35.1	14.4	2.5	29.5	0.0	0.0	2.5	25.9	33.1
Singapore	482	15.6	54.4	23.4	5.6	1.0	54.4	0.0	0.2	0.7	56.3	52.6
Slovak Republic	440	21.7	45.3	24.0	6.7	2.2	45.3	0.7	0.0	1.6	45.9	44.6
Slovenia	351	10.0	66.2	14.5	5.7	3.5	66.2	1.9	0.0	1.6	64.9	67.7
South Africa	678	21.3	18.9	27.4	26.6	5.8	18.9	0.3	2.7	2.8	18.9	19.0
Spain	462	14.7	47.3	22.3	13.7	2.0	47.3	0.0	0.0	2.0	40.7	53.9
Sweden	364	16.4	53.0	19.8	8.8	1.9	53.0	0.0	0.0	1.9	50.1	55.7
Switzerland	508	9.9	59.9	21.8	6.7	1.6	59.9	0.9	0.0	0.7	55.2	64.3
Thailand	726	6.9	46.3	37.4	7.7	1.7	46.3	0.0	0.3	1.4	46.7	45.5
United States	490	18.2	48.5	21.4	11.2	0.8	48.5	0.0	0.0	0.8	43.2	53.6
INTERNATIONAL AVG	.	14.9	45.9	25.3	11.2	2.8	45.9	0.4	0.2	2.2	42.7	48.9

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: L03 KEY: D  
 Identify skull features typical of predators. (Life Science)  
 Difficulty: 471

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	696	5.1	5.8	5.9	63.3	18.2	1.7	63.3	0.0	0.0	1.7	62.3	64.5
Austria	378	2.1	4.2	3.5	85.1	4.2	1.0	85.1	0.3	0.0	0.7	84.7	85.9
Belgium (Fl)	352	10.0	7.1	1.8	63.7	16.3	1.0	63.7	0.0	0.0	1.0	62.8	64.7
Belgium (Fr)	294	5.3	4.3	4.2	72.2	9.1	4.9	72.2	0.7	0.6	3.7	72.4	71.8
Bulgaria	159	3.5	1.1	1.8	75.1	12.6	5.8	75.1	3.1	0.0	2.7	73.2	77.1
Canada	1022	2.0	4.3	4.9	68.3	19.3	1.1	68.3	0.0	0.0	1.1	69.4	67.3
Colombia	330	4.1	13.2	1.7	62.5	15.5	3.0	62.5	0.0	0.9	2.2	58.6	65.5
Cyprus	375	6.0	8.6	14.6	57.6	11.4	1.9	57.6	0.2	0.0	1.6	59.8	55.5
Czech Republic	412	4.2	5.8	3.5	66.6	19.1	0.9	66.6	0.0	0.0	0.9	63.3	70.2
Denmark	272	3.6	4.9	5.0	70.1	13.2	3.1	70.1	0.8	0.0	2.4	66.5	73.2
England	216	7.2	5.4	5.7	63.2	17.5	1.0	63.2	0.0	0.0	1.0	57.8	67.4
France	365	2.6	3.3	8.5	62.7	18.1	4.8	62.7	1.9	0.3	2.5	59.7	66.3
Germany	361	2.1	6.9	2.8	80.7	5.0	2.5	80.7	1.3	0.2	1.0	78.2	84.8
Greece	501	5.6	8.6	10.0	65.4	8.7	1.7	65.4	0.0	0.0	1.7	65.3	65.2
Hong Kong	422	2.9	8.6	6.8	66.4	14.6	0.7	66.4	0.0	0.0	0.7	69.5	64.2
Hungary	382	2.3	4.5	3.6	76.2	10.3	3.1	76.2	0.0	0.0	3.1	76.6	75.9
Iceland	247	3.0	4.1	8.6	70.8	12.3	1.2	70.8	0.7	0.0	0.5	73.6	68.3
Iran, Islamic Rep.	455	4.4	9.4	19.6	47.9	16.7	2.0	47.9	0.0	0.0	2.0	39.6	54.7
Ireland	375	4.6	5.5	6.0	66.5	17.1	0.2	66.5	0.0	0.0	0.2	67.0	66.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	2.8	5.5	7.3	75.3	8.5	0.6	75.3	0.0	0.0	0.6	74.3	76.1
Korea	360	3.1	2.6	6.9	82.5	4.9	0.0	82.5	0.0	0.0	0.0	81.5	83.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	5.3	4.6	5.1	58.3	20.4	6.3	58.3	0.0	0.4	5.9	54.4	62.3
Lithuania	321	2.3	5.8	4.4	58.6	17.7	11.1	58.6	0.4	1.0	9.7	52.9	64.8
Netherlands	271	13.0	10.3	4.0	60.2	11.2	1.3	60.2	0.0	0.4	0.9	54.1	67.1
New Zealand	395	3.8	7.7	7.9	61.4	18.3	0.9	61.4	0.0	0.0	0.9	54.6	66.8
Norway	305	8.1	3.5	3.0	68.6	15.1	1.7	68.6	0.0	0.5	1.2	61.6	75.0
Philippines	727	6.2	17.2	38.7	20.6	17.3	0.0	20.6	0.0	0.0	0.0	20.2	20.9
Portugal	406	2.0	10.0	5.6	61.1	19.8	1.6	61.1	0.3	0.0	1.3	57.5	64.4
Romania	456	5.8	6.5	4.5	62.1	9.6	11.5	62.1	5.8	0.4	5.3	60.4	64.0
Russian Federation	522	2.6	8.0	5.2	64.1	16.4	3.6	64.1	1.0	0.2	2.5	61.4	66.7
Scotland	356	6.8	8.2	5.7	60.5	17.8	1.0	60.5	0.0	0.0	1.0	55.6	65.4
Singapore	482	4.4	4.3	10.0	71.5	8.5	1.4	71.5	0.0	0.2	1.2	71.1	71.9
Slovak Republic	439	4.2	6.4	2.0	71.0	14.5	1.8	71.0	1.0	0.0	0.9	68.1	74.2
Slovenia	351	2.8	5.9	4.2	78.2	6.4	2.4	78.2	1.1	0.0	1.3	75.1	81.5
South Africa	678	10.5	22.5	20.4	29.6	11.6	5.4	29.6	0.4	2.7	2.3	32.1	27.5
Spain	462	2.8	5.1	6.2	67.0	17.2	1.7	67.0	0.0	0.0	1.7	60.3	73.6
Sweden	364	3.8	3.7	3.4	66.9	21.4	0.8	66.9	0.2	0.0	0.6	64.2	69.3
Switzerland	508	2.0	5.4	2.9	81.7	6.6	1.4	81.7	1.0	0.0	0.3	79.8	83.5
Thailand	726	3.0	5.7	6.0	69.4	14.9	1.1	69.4	0.0	0.3	0.8	70.3	68.1
United States	490	5.3	5.1	7.5	68.3	13.2	0.6	68.3	0.0	0.0	0.6	67.6	68.9
INTERNATIONAL AVG	.	4.5	6.7	7.0	65.5	13.8	2.4	65.5	0.5	0.2	1.7	63.4	67.6

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent



Item: L04  
 Explain most efficient engine. (Physics)  
 Difficulty: 688

COUNTRY	N	10	11	19	70	71	72	73	74	75	76	79	90	99	V1	NOT REACHED		1.GIRL % Right	2.BOY % Right	
																ED	OMIT			
Australia	696	8.0	1.6	26.4	15.0	1.5	0.2	0.0	2.9	9.8	3.3	16.7	2.4	12.2	36.0	0.0	12.2	37.6	34.1	
Austria	378	2.3	41.1	10.7	12.0	4.2	1.4	0.4	0.8	3.6	8.4	1.7	2.4	11.0	54.2	0.0	11.0	52.0	55.4	
Belgium (Fl)	352	30.0	5.1	8.6	27.9	3.0	0.3	0.0	3.7	5.8	3.5	3.5	1.6	7.0	43.8	0.0	7.0	38.7	48.8	
Belgium (Fr)	295	0.0	0.0	36.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.8	0.0	24.6	36.7	0.6	24.0	36.4	36.6	
Bulgaria	159	17.5	4.5	2.7	18.6	9.7	0.0	0.0	5.5	3.8	7.7	0.7	0.7	28.7	24.6	0.0	28.7	17.1	32.1	
Canada	1022	27.3	8.9	5.3	20.5	2.9	0.6	0.4	3.0	7.9	4.5	3.8	1.5	13.3	41.6	0.0	13.3	41.6	41.0	
Colombia	330	9.4	0.0	0.5	22.9	2.8	1.6	0.3	8.0	15.2	4.2	16.9	0.0	18.3	9.9	1.0	17.3	9.3	10.7	
Cyprus	375	19.2	0.3	3.0	10.1	1.9	0.6	0.0	2.9	9.9	5.7	4.7	1.0	40.8	22.5	0.0	40.8	24.2	21.2	
Czech Republic	412	24.1	0.9	9.1	20.3	3.7	2.6	0.3	8.1	5.4	7.0	5.1	0.5	13.0	34.1	0.0	13.0	34.8	33.3	
Denmark	272	18.6	0.0	4.7	14.8	7.4	1.1	0.0	0.6	3.4	13.9	4.5	0.7	30.2	23.3	0.0	30.2	20.7	24.4	
England	216	34.7	1.3	5.9	18.0	0.5	1.0	0.0	4.8	6.2	1.9	15.5	3.3	6.8	42.0	0.0	6.8	38.0	45.0	
France	365	13.4	4.4	3.6	29.0	4.9	1.0	0.0	3.7	10.4	7.5	5.3	1.0	15.8	21.3	0.3	15.5	22.3	20.0	
Germany	361	18.9	17.0	0.7	12.6	4.6	0.6	0.6	4.5	4.0	8.9	1.8	3.0	22.9	36.5	0.2	22.7	35.3	39.3	
Greece	501	7.6	5.6	4.2	18.7	4.6	1.7	0.6	4.8	9.5	9.2	3.6	1.3	28.5	17.5	0.0	28.5	14.2	20.9	
Hong Kong	422	0.0	14.9	2.2	15.8	1.9	0.5	0.2	8.8	20.4	7.1	6.7	0.7	20.8	17.1	0.0	20.8	15.4	18.6	
Hungary	382	0.5	16.1	5.3	21.4	2.2	1.2	0.3	22.8	5.5	5.3	3.9	0.2	15.3	21.8	0.0	15.3	20.1	23.6	
Iceland	247	15.6	1.6	4.7	24.0	3.8	0.4	0.0	1.0	12.9	3.5	18.5	1.5	12.4	22.0	0.0	12.4	19.5	24.3	
Iran, Islamic Rep.	455	5.5	7.9	14.4	23.3	7.8	7.7	0.1	6.5	2.8	3.5	2.6	1.5	16.2	27.9	0.1	16.1	31.0	25.3	
Ireland	375	16.0	19.6	4.9	18.6	0.9	1.4	0.2	4.8	8.5	4.0	8.3	2.2	10.7	40.5	0.0	10.7	38.6	42.5	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	26.6	1.1	2.5	24.2	1.9	0.1	0.1	12.3	15.1	3.2	1.7	1.2	10.0	30.1	0.0	10.0	26.2	33.6	
Korea	360	29.0	7.6	9.1	28.4	0.9	0.6	0.0	1.7	11.5	0.9	3.6	0.0	6.7	45.7	0.0	6.7	37.8	51.8	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	9.2	0.0	1.2	23.0	10.1	1.0	0.8	2.9	4.2	11.7	2.5	4.4	28.9	10.4	0.4	28.5	8.4	12.6	
Lithuania	321	3.2	0.3	2.6	16.3	8.5	0.5	0.5	2.0	4.5	3.1	8.5	0.5	49.6	6.1	1.0	48.6	6.1	6.2	
Netherlands	271	42.4	2.3	5.8	17.5	1.5	0.3	0.0	2.0	5.3	3.3	1.0	11.2	7.4	50.5	0.4	7.0	45.0	56.6	
New Zealand	395	27.9	5.7	3.3	14.6	1.6	0.3	0.5	7.4	14.0	4.4	7.2	0.1	12.8	37.0	0.0	12.8	40.6	34.0	
Norway	305	8.9	11.2	0.0	19.4	8.9	0.0	0.0	2.1	18.0	8.7	2.9	5.2	14.6	20.2	0.5	14.2	21.9	18.7	
Philippines	727	13.3	0.3	1.9	18.6	2.5	0.3	0.0	8.7	13.3	6.9	8.5	3.6	22.1	15.5	0.0	22.1	19.1	11.7	
Portugal	406	12.3	0.9	7.2	35.1	1.6	1.6	0.0	6.4	10.5	3.1	4.8	1.9	14.6	20.4	0.0	14.6	20.4	20.4	
Romania	458	12.7	1.3	2.3	15.8	3.7	0.8	0.4	2.5	9.4	9.9	4.3	1.1	35.8	16.4	0.4	35.4	14.9	18.0	
Russian Federation	522	14.7	2.0	4.0	13.3	4.2	0.2	0.6	9.2	5.3	8.4	1.9	3.7	32.5	20.7	0.2	32.3	20.8	20.6	
Scotland	356	16.4	4.9	18.7	11.7	1.4	0.8	0.0	4.6	6.3	3.8	10.7	2.5	18.2	40.0	0.0	18.2	39.8	39.9	
Singapore	482	1.5	8.1	31.8	10.6	1.4	0.2	0.0	1.4	6.3	3.1	26.0	0.3	9.2	41.3	0.2	9.0	40.5	42.1	
Slovak Republic	439	14.5	12.9	6.9	24.6	3.7	1.2	0.2	1.7	5.4	9.1	5.2	1.9	12.8	34.3	0.0	12.8	32.5	36.3	
Slovenia	351	29.8	2.7	8.8	19.0	3.6	1.7	0.3	3.3	4.6	4.0	3.0	1.1	18.0	41.3	0.0	18.0	43.4	39.1	
South Africa	678	3.4	0.3	1.5	8.8	5.9	0.0	0.3	2.8	9.8	10.4	15.4	1.9	39.4	5.2	2.7	36.7	5.1	5.5	
Spain	462	14.2	0.2	2.9	21.3	5.2	0.9	0.8	9.8	17.4	4.4	2.0	1.0	19.9	17.3	0.0	19.9	17.5	17.2	
Sweden	364	11.8	10.0	3.2	24.0	4.9	0.3	0.0	0.8	10.6	7.8	6.2	7.4	13.0	25.0	0.3	12.7	27.1	23.1	
Switzerland	508	25.3	2.1	5.1	11.8	10.4	0.8	0.5	1.3	6.4	16.3	5.5	1.6	12.8	32.5	0.0	12.8	29.9	35.0	
Thailand	726	2.2	0.7	0.5	5.1	40.1	0.2	2.9	0.9	0.4	31.8	1.4	1.5	12.3	3.4	0.3	12.1	3.1	3.8	
United States	490	17.6	15.0	3.1	15.6	2.0	0.1	0.0	6.9	11.9	9.5	5.2	1.6	11.6	35.7	0.0	11.6	36.3	35.1	
INTERNATIONAL AVG	.	15.1	6.0	6.9	18.1	4.8	0.9	0.3	4.7	8.4	6.8	7.3	2.0	18.8	28.1	0.2	18.6	27.1	29.0	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: L05 KEY: B  
 Select most likely purpose for birds' singing. (Life Science)  
 Difficulty: 498

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	696	11.1	67.6	9.7	10.8	0.7	67.6	0.0	0.0	0.7	67.5	67.7
Austria	378	16.1	63.8	13.9	4.9	1.3	63.8	0.3	0.0	1.0	59.0	68.0
Belgium (Fl)	352	16.5	72.0	7.7	3.3	0.5	72.0	0.0	0.0	0.5	69.4	74.5
Belgium (Fr)	295	5.4	69.8	8.7	12.0	4.1	69.8	1.7	0.9	1.5	68.3	71.7
Bulgaria	159	2.8	78.3	7.0	7.2	4.7	78.3	0.0	0.0	4.7	80.9	75.6
Canada	1022	10.8	59.1	15.8	13.0	1.3	59.1	0.0	0.0	1.3	60.2	57.7
Colombia	330	21.5	35.8	8.3	32.2	2.1	35.8	0.0	1.0	1.1	30.7	41.2
Cyprus	375	9.5	57.8	20.6	10.5	1.5	57.8	0.2	0.0	1.2	55.0	59.9
Czech Republic	412	14.1	65.0	7.5	13.2	0.2	65.0	0.0	0.0	0.2	65.5	64.3
Denmark	272	9.1	71.1	9.7	6.9	3.2	71.1	0.8	0.0	2.4	71.3	69.6
England	216	11.1	62.0	12.9	12.3	1.6	62.0	0.0	0.0	1.6	60.3	63.4
France	365	6.2	74.0	6.2	11.1	2.4	74.0	0.5	0.3	1.6	76.0	73.0
Germany	361	14.1	62.8	14.7	5.3	3.1	62.8	2.1	0.2	0.8	63.3	64.9
Greece	501	7.1	59.2	20.4	12.4	1.0	59.2	0.1	0.0	0.9	61.2	57.1
Hong Kong	422	12.2	32.1	42.0	13.1	0.6	32.1	0.0	0.0	0.6	30.1	33.7
Hungary	382	12.1	65.4	12.5	7.0	3.0	65.4	0.0	0.4	2.7	63.0	67.8
Iceland	247	6.2	72.7	15.9	3.9	1.3	72.7	0.7	0.0	0.6	71.4	73.8
Iran, Islamic Rep.	455	2.0	66.1	3.9	26.9	1.2	66.1	0.6	0.1	0.4	65.3	66.9
Ireland	375	7.9	66.8	11.2	13.9	0.2	66.8	0.2	0.0	0.0	66.4	67.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	8.1	83.8	5.8	1.7	0.6	83.8	0.3	0.0	0.2	85.7	82.1
Korea	360	7.8	87.6	4.0	0.6	0.0	87.6	0.0	0.0	0.0	86.0	88.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	8.0	48.8	12.2	27.4	3.5	48.8	0.0	0.4	3.1	50.2	47.7
Lithuania	321	4.8	43.5	16.8	29.0	5.9	43.5	0.9	1.0	4.0	44.4	42.6
Netherlands	271	18.2	68.7	7.3	5.3	0.5	68.7	0.0	0.4	0.1	66.5	71.3
New Zealand	394	10.7	54.0	20.4	14.6	0.2	54.0	0.0	0.0	0.2	57.9	50.9
Norway	305	4.4	76.7	7.9	9.7	1.4	76.7	0.0	0.7	0.6	79.9	73.7
Philippines	727	14.4	39.5	23.8	21.9	0.4	39.5	0.0	0.0	0.4	38.7	40.1
Portugal	406	17.8	46.7	14.5	19.5	1.4	46.7	0.0	0.0	1.4	42.7	50.5
Romania	454	9.1	51.0	16.7	15.8	7.4	51.0	4.0	0.4	3.0	55.1	46.3
Russian Federation	522	5.8	57.8	16.0	18.9	1.5	57.8	0.0	0.2	1.3	54.5	61.1
Scotland	356	8.8	62.0	12.7	15.0	1.6	62.0	0.5	0.0	1.1	56.7	67.2
Singapore	482	4.9	55.2	27.9	11.0	1.0	55.2	0.0	0.2	0.8	55.8	54.7
Slovak Republic	439	1.6	64.1	11.1	21.0	2.1	64.1	1.9	0.0	0.2	57.1	72.0
Slovenia	351	2.8	76.4	10.0	9.9	0.9	76.4	0.9	0.0	0.0	72.6	80.5
South Africa	678	18.2	28.3	19.3	27.8	6.3	28.3	0.8	2.9	2.6	29.0	28.3
Spain	462	9.3	65.0	15.9	8.5	1.3	65.0	0.0	0.0	1.3	63.4	66.7
Sweden	364	7.6	79.2	7.3	5.6	0.3	79.2	0.0	0.3	0.0	86.2	72.2
Switzerland	508	10.8	63.2	12.5	12.2	1.4	63.2	1.2	0.0	0.2	61.0	65.2
Thailand	726	3.3	64.6	12.0	19.6	0.5	64.6	0.0	0.3	0.3	64.0	65.3
United States	490	11.7	63.0	12.5	11.9	1.0	63.0	0.0	0.0	1.0	62.1	63.8
INTERNATIONAL AVG	.	9.6	62.0	13.4	13.2	1.8	62.0	0.4	0.2	1.1	61.4	62.7

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: L06 KEY: D  
 Compare cold-weather activity of warm-blooded and cold-blooded animals. (Life Science)  
 Difficulty: 571

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	696	9.6	22.3	9.8	57.7	0.6	57.7	0.0	0.0	0.6	58.5	56.8
Austria	378	4.9	16.3	15.7	60.4	2.6	60.4	0.2	0.0	2.4	67.2	52.6
Belgium (Fl)	352	11.8	18.6	10.8	56.6	2.2	56.6	0.0	0.0	2.2	51.5	61.7
Belgium (Fr)	295	14.8	13.7	13.2	50.6	7.7	50.6	0.0	1.2	6.5	50.7	50.5
Bulgaria	159	5.6	10.2	5.7	73.2	5.3	73.2	1.4	0.0	3.9	72.7	73.6
Canada	1022	11.2	13.2	11.5	62.9	1.2	62.9	0.0	0.0	1.2	64.7	61.1
Colombia	330	20.5	12.5	20.8	41.9	4.3	41.9	0.0	1.0	3.3	39.6	44.2
Cyprus	375	12.5	45.0	17.3	21.6	3.6	21.6	0.2	0.0	3.4	23.1	20.4
Czech Republic	412	10.0	20.5	12.9	53.3	3.3	53.3	0.0	0.0	3.3	57.3	48.8
Denmark	272	10.3	25.2	22.1	37.1	5.3	37.1	0.0	0.0	5.3	34.0	40.4
England	216	9.5	21.7	14.3	54.0	0.5	54.0	0.0	0.0	0.5	53.6	54.4
France	365	9.2	21.8	9.8	53.5	5.6	53.5	0.8	0.3	4.5	54.2	50.6
Germany	361	8.4	14.3	15.3	57.1	4.9	57.1	0.8	0.2	3.9	62.3	51.1
Greece	501	11.7	51.9	12.3	22.0	2.1	22.0	0.2	0.0	1.9	21.6	22.2
Hong Kong	422	11.0	18.1	7.8	63.1	0.0	63.1	0.0	0.0	0.0	66.3	60.6
Hungary	382	11.7	9.9	5.0	70.4	3.1	70.4	0.0	0.4	2.7	75.4	65.2
Iceland	247	28.1	11.3	23.8	33.9	3.0	33.9	1.1	0.0	1.9	30.2	37.3
Iran, Islamic Rep.	455	18.3	15.9	11.0	53.9	0.9	53.9	0.0	0.1	0.7	59.9	49.2
Ireland	375	15.0	11.4	12.6	60.7	0.3	60.7	0.0	0.0	0.3	63.6	57.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	5.1	67.7	8.9	17.8	0.4	17.8	0.4	0.0	0.0	18.2	17.5
Korea	360	12.0	29.7	7.9	50.4	0.0	50.4	0.0	0.0	0.0	49.6	51.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	6.8	20.8	15.6	49.7	7.1	49.7	0.0	0.4	6.7	49.0	50.0
Lithuania	321	10.8	20.0	14.4	40.9	13.9	40.9	0.2	1.0	12.8	46.7	34.7
Netherlands	271	10.2	15.3	12.9	60.7	0.9	60.7	0.0	0.4	0.5	60.8	60.6
New Zealand	394	15.1	15.0	10.8	58.3	0.8	58.3	0.0	0.0	0.8	61.7	55.6
Norway	305	17.1	27.6	15.1	38.6	1.6	38.6	0.0	0.7	0.8	41.4	36.0
Philippines	727	30.8	20.2	16.4	32.2	0.4	32.2	0.0	0.0	0.4	32.1	32.4
Portugal	406	19.2	30.1	15.9	34.1	0.8	34.1	0.0	0.0	0.8	31.0	36.9
Romania	452	14.0	15.8	9.7	53.9	6.7	53.9	2.5	0.4	3.8	49.9	58.3
Russian Federation	522	9.7	25.5	6.9	52.9	5.0	52.9	0.4	0.2	4.4	57.3	48.6
Scotland	356	12.1	13.8	15.1	57.6	1.4	57.6	0.0	0.0	1.4	59.0	57.2
Singapore	482	14.1	8.4	5.2	71.2	1.1	71.2	0.0	0.2	0.9	68.5	74.0
Slovak Republic	440	14.1	19.4	7.4	57.1	2.0	57.1	0.2	0.0	1.9	55.6	58.6
Slovenia	351	17.1	10.5	19.5	50.8	2.2	50.8	0.5	0.0	1.7	49.5	52.2
South Africa	678	30.2	21.2	19.4	23.3	5.8	23.3	0.7	2.9	2.2	23.5	23.5
Spain	462	9.7	29.0	11.9	47.8	1.7	47.8	0.0	0.0	1.7	49.9	45.7
Sweden	364	9.6	25.5	15.9	48.4	0.6	48.4	0.0	0.3	0.2	48.2	48.5
Switzerland	508	8.2	17.2	15.1	58.3	1.1	58.3	0.7	0.0	0.4	59.3	57.4
Thailand	726	22.7	17.4	8.5	50.7	0.7	50.7	0.0	0.3	0.5	47.9	54.9
United States	490	14.2	16.8	12.9	55.5	0.6	55.5	0.0	0.0	0.6	60.5	50.7
INTERNATIONAL AVG	.	13.4	21.0	12.9	49.9	2.8	49.9	0.3	0.3	2.3	50.6	49.1

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: L07 KEY: D  
 Relate sound transmission to air. (Physics)  
 Difficulty: 473

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	696	6.8	8.1	14.3	68.9	1.9	68.9	0.0	0.0	1.9	66.2	72.2
Austria	378	6.3	6.8	8.4	75.5	3.0	75.5	1.1	0.0	1.9	73.8	76.0
Belgium (Fl)	352	6.6	10.1	18.3	64.4	0.7	64.4	0.0	0.0	0.7	57.8	71.0
Belgium (Fr)	295	8.4	11.1	9.3	65.5	5.7	65.5	0.3	1.2	4.2	62.2	69.1
Bulgaria	159	2.1	3.4	2.9	85.4	6.2	85.4	1.4	0.0	4.8	88.8	82.1
Canada	1022	7.8	8.2	12.2	70.5	1.3	70.5	0.0	0.0	1.3	69.3	71.6
Colombia	330	18.2	12.0	15.2	51.1	3.4	51.1	0.0	1.0	2.4	51.5	51.0
Cyprus	375	8.9	15.7	15.0	57.0	3.4	57.0	0.2	0.0	3.2	57.2	56.6
Czech Republic	412	2.4	8.5	15.0	73.2	0.8	73.2	0.0	0.0	0.8	75.4	70.7
Denmark	272	4.4	16.9	14.3	60.8	3.6	60.8	0.6	0.0	3.0	53.5	67.7
England	216	8.4	5.6	9.4	75.6	1.0	75.6	0.0	0.0	1.0	72.5	78.0
France	365	9.0	7.6	10.0	70.1	3.3	70.1	0.7	0.3	2.3	68.3	73.2
Germany	361	5.7	6.5	7.4	77.6	2.9	77.6	0.5	0.2	2.1	76.6	79.3
Greece	501	6.6	11.8	6.3	72.5	2.8	72.5	0.0	0.0	2.8	74.5	70.2
Hong Kong	422	5.7	10.8	5.4	77.2	0.9	77.2	0.0	0.0	0.9	72.9	80.5
Hungary	382	2.8	7.9	13.0	72.7	3.6	72.7	0.0	0.4	3.3	70.1	75.4
Iceland	247	3.5	15.3	9.7	67.6	3.9	67.6	1.1	0.0	2.8	68.6	66.6
Iran, Islamic Rep.	455	10.6	10.6	14.7	62.1	1.9	62.1	0.6	0.1	1.2	52.6	69.6
Ireland	375	6.4	7.0	9.9	74.9	1.8	74.9	0.2	0.0	1.6	75.3	74.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	2.9	5.9	3.1	87.6	0.5	87.6	0.0	0.0	0.5	83.8	91.1
Korea	360	1.2	6.5	2.5	89.9	0.0	89.9	0.0	0.0	0.0	86.2	92.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	316	4.8	7.6	15.6	65.0	7.0	65.0	0.0	0.7	6.3	59.3	70.9
Lithuania	321	5.6	10.7	8.1	64.6	11.0	64.6	1.1	1.0	8.9	62.2	67.1
Netherlands	271	14.9	15.2	18.0	48.8	3.1	48.8	0.0	0.4	2.7	40.4	58.3
New Zealand	394	10.0	6.5	14.7	66.9	1.9	66.9	0.0	0.0	1.9	65.3	68.3
Norway	305	4.9	9.3	12.4	70.1	3.4	70.1	0.0	0.7	2.6	65.4	74.3
Philippines	727	14.0	18.3	21.6	45.4	0.7	45.4	0.0	0.0	0.7	44.8	46.1
Portugal	406	12.0	16.9	12.3	56.8	2.0	56.8	0.0	0.0	2.0	51.7	61.7
Romania	452	19.4	10.2	11.3	50.7	8.4	50.7	2.2	0.4	5.8	48.3	53.3
Russian Federation	522	7.4	10.0	19.2	59.6	3.7	59.6	0.0	0.2	3.6	58.0	61.2
Scotland	356	7.9	9.6	13.1	67.5	1.9	67.5	0.0	0.0	1.9	61.9	73.2
Singapore	482	10.1	10.8	11.0	66.1	2.1	66.1	0.0	0.2	1.8	61.6	70.6
Slovak Republic	440	5.3	11.0	10.6	71.3	1.8	71.3	0.6	0.0	1.1	72.8	69.7
Slovenia	350	6.0	6.3	14.4	71.4	1.9	71.4	1.3	0.0	0.5	71.7	71.1
South Africa	678	17.9	21.8	24.0	29.4	6.9	29.4	0.5	2.9	3.5	31.5	26.8
Spain	462	7.5	17.4	10.7	62.9	1.5	62.9	0.0	0.0	1.5	59.5	66.3
Sweden	364	4.1	8.2	14.1	71.9	1.7	71.9	0.2	0.3	1.1	67.5	76.2
Switzerland	508	6.1	6.5	8.0	77.3	2.0	77.3	0.0	0.0	1.9	73.5	81.0
Thailand	726	8.6	15.8	8.7	65.3	1.5	65.3	0.2	0.3	1.1	64.4	66.4
United States	490	15.1	12.2	13.1	58.7	0.8	58.7	0.0	0.0	0.8	56.8	60.6
INTERNATIONAL AVG	.	7.9	10.5	11.9	66.8	2.9	66.8	0.3	0.3	2.3	64.3	69.1

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: M10 KEY: D  
 Identify substances which are mixtures. (Chemistry)  
 Difficulty: 608

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	715	18.2	17.4	15.0	47.4	2.0	47.4	0.0	0.3	1.7	49.4	45.2
Austria	371	13.2	19.4	19.8	45.8	1.9	45.8	0.0	0.0	1.9	45.9	45.9
Belgium (Fl)	344	18.1	8.5	15.9	55.0	2.5	55.0	0.0	0.0	2.5	53.7	56.1
Belgium (Fr)	289	18.4	9.7	18.5	49.8	3.7	49.8	1.0	1.3	1.3	50.3	50.6
Bulgaria	170	5.8	22.6	21.2	41.9	8.4	41.9	1.5	3.6	3.3	37.0	47.8
Canada	1016	26.2	13.9	8.2	51.1	0.7	51.1	0.1	0.0	0.6	48.2	54.2
Colombia	332	40.7	15.2	16.7	24.6	2.8	24.6	0.1	0.8	1.8	23.2	25.8
Cyprus	380	28.8	14.6	15.4	37.2	3.8	37.2	0.4	0.0	3.5	41.1	33.2
Czech Republic	415	9.2	18.6	15.7	55.4	1.1	55.4	0.9	0.2	0.0	49.2	61.7
Denmark	273	16.5	14.8	10.6	55.4	2.7	55.4	0.2	0.8	1.7	59.3	50.9
England	227	16.5	15.6	14.6	48.9	4.4	48.9	0.0	0.0	4.4	49.1	48.7
France	378	15.6	14.7	19.9	46.1	3.8	46.1	0.7	0.0	3.0	43.5	49.6
Germany	364	9.8	10.2	12.7	61.7	5.5	61.7	2.1	1.4	2.1	64.1	60.7
Greece	493	36.7	7.8	20.0	33.0	2.5	33.0	0.9	0.8	0.8	35.6	30.8
Hong Kong	422	26.7	18.3	21.1	33.0	1.0	33.0	0.2	0.0	0.7	31.7	33.9
Hungary	388	8.1	22.4	14.7	51.6	3.3	51.6	0.0	0.2	3.1	52.5	50.6
Iceland	248	27.6	14.7	13.9	40.8	3.0	40.8	0.4	0.0	2.6	41.0	40.6
Iran, Islamic Rep.	468	25.6	16.1	22.7	34.4	1.3	34.4	0.2	0.5	0.5	36.7	32.6
Ireland	378	23.9	18.8	15.5	41.3	0.5	41.3	0.3	0.0	0.2	38.1	45.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	644	14.5	19.7	10.9	52.5	2.2	52.5	1.6	0.2	0.5	55.3	49.9
Korea	359	12.4	23.0	11.8	52.7	0.0	52.7	0.0	0.0	0.0	54.1	51.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	26.3	21.5	16.8	28.5	6.9	28.5	0.0	0.8	6.1	27.8	28.7
Lithuania	310	19.8	24.5	17.3	32.6	5.8	32.6	1.3	1.7	2.8	31.3	34.1
Netherlands	257	29.2	14.8	17.0	36.6	2.4	36.6	0.0	0.3	2.1	38.0	34.9
New Zealand	402	24.0	14.7	13.8	46.6	0.8	46.6	0.2	0.3	0.3	44.0	49.2
Norway	307	17.9	12.4	19.2	46.9	3.7	46.9	0.0	0.9	2.8	41.3	51.1
Philippines	730	37.1	25.3	14.4	22.5	0.7	22.5	0.1	0.0	0.5	24.3	20.5
Portugal	418	26.6	22.8	14.7	34.1	1.8	34.1	0.0	0.0	1.8	34.0	34.3
Romania	463	18.0	21.9	24.5	27.8	7.8	27.8	3.5	0.0	4.3	26.7	29.2
Russian Federation	523	17.7	17.9	15.2	45.4	3.7	45.4	0.3	0.3	3.1	44.5	46.4
Scotland	362	21.7	19.3	12.9	44.1	1.9	44.1	0.9	0.0	1.0	44.9	43.7
Singapore	451	6.4	20.0	22.1	51.3	0.1	51.3	0.0	0.0	0.1	52.5	50.2
Slovak Republic	436	16.5	19.6	13.4	47.7	2.9	47.7	2.0	0.0	0.9	46.1	48.9
Slovenia	359	8.1	18.2	19.6	49.2	4.8	49.2	2.4	0.0	2.4	47.3	51.0
South Africa	645	34.6	16.7	18.1	21.2	9.4	21.2	0.5	2.6	6.3	21.0	21.3
Spain	467	18.5	13.5	28.1	38.4	1.4	38.4	0.0	0.0	1.4	37.1	39.6
Sweden	363	13.9	12.8	8.9	64.0	0.3	64.0	0.0	0.0	0.3	61.0	66.6
Switzerland	498	13.2	15.8	16.4	53.1	1.4	53.1	1.0	0.1	0.3	46.0	60.5
Thailand	734	31.1	23.3	9.4	35.0	1.2	35.0	0.0	0.2	1.0	32.8	37.3
United States	487	20.7	20.3	20.4	38.3	0.4	38.3	0.0	0.0	0.4	38.1	38.4
INTERNATIONAL AVG	.	20.4	17.3	16.4	43.1	2.9	43.1	0.6	0.4	1.9	42.4	43.8

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: M11  
 Complete a food web showing energy relationships. (Life Science)  
 Difficulty: 490

COUNTRY	N	10	11	70	71	72	79	90	99	V1	NOT	1.GIRL	2.BOY	
											REACH			OMIT
Australia	715	63.0	0.5	4.5	5.5	16.2	1.0	3.5	5.9	63.5	0.3	5.5	70.2	55.8
Austria	371	69.0	0.2	4.3	4.4	15.6	0.3	2.5	3.7	69.1	0.0	3.7	71.6	65.8
Belgium (Fl)	344	71.9	0.4	3.4	4.9	14.6	0.3	0.0	4.4	72.3	0.0	4.4	66.6	77.1
Belgium (Fr)	289	58.1	0.0	0.0	5.7	17.7	5.3	0.0	13.2	58.1	1.3	11.9	52.4	65.0
Bulgaria	170	68.6	0.0	1.6	2.4	15.0	1.2	0.0	11.2	68.6	3.6	7.6	69.2	67.8
Canada	1016	71.2	0.6	3.1	4.6	14.7	1.0	0.9	3.9	71.8	0.0	3.9	72.1	72.2
Colombia	332	33.7	0.9	5.3	11.2	21.1	12.4	1.0	14.3	34.7	0.8	13.5	30.5	39.1
Cyprus	380	40.1	0.3	6.6	8.5	19.3	11.1	1.3	12.8	40.4	0.0	12.8	40.7	40.1
Czech Republic	415	76.0	1.3	3.3	4.6	11.5	0.9	0.5	1.9	77.4	0.2	1.7	74.4	80.4
Denmark	273	52.5	0.6	5.9	6.1	15.8	0.7	0.0	18.5	53.0	1.4	17.1	59.3	46.7
England	227	75.7	0.0	3.4	5.9	10.2	0.0	1.8	3.1	75.7	0.0	3.1	76.0	75.3
France	378	55.0	0.3	4.2	9.5	19.1	0.3	0.3	11.3	55.3	0.0	11.3	56.9	55.4
Germany	363	69.0	0.3	4.2	4.5	10.8	0.5	0.3	10.3	69.3	1.4	9.0	71.0	67.0
Greece	493	56.1	1.0	4.5	5.0	15.5	2.0	1.9	14.2	57.1	0.8	13.4	55.0	58.9
Hong Kong	422	76.4	0.5	1.9	2.6	11.6	0.5	0.3	6.2	76.9	0.0	6.2	77.6	76.5
Hungary	388	80.7	0.5	0.5	4.7	10.1	1.5	0.2	1.8	81.2	0.2	1.7	80.5	82.0
Iceland	248	39.7	0.4	14.0	8.1	27.0	2.5	0.8	7.5	40.1	0.0	7.5	47.4	33.8
Iran, Islamic Rep.	468	55.1	1.0	1.2	12.4	16.2	5.4	1.6	7.2	56.0	0.5	6.6	59.3	53.3
Ireland	378	68.8	0.3	3.8	8.0	14.1	0.6	2.9	1.5	69.0	0.0	1.5	68.0	70.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	644	75.9	0.5	3.3	4.4	11.8	0.0	3.6	0.4	76.4	0.2	0.3	77.3	75.6
Korea	359	86.9	0.8	0.0	3.9	7.3	0.8	0.0	0.3	87.7	0.0	0.3	83.5	91.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	59.5	3.0	1.6	8.1	15.3	1.9	1.1	9.5	62.4	0.8	8.7	62.7	61.9
Lithuania	310	39.4	0.6	5.7	6.1	16.1	0.0	1.6	30.5	40.0	1.7	28.8	37.1	43.4
Netherlands	257	64.0	0.4	5.1	2.4	20.9	1.2	2.6	3.5	64.4	0.3	3.1	68.5	60.7
New Zealand	402	64.9	0.2	6.4	7.1	13.9	1.8	3.2	2.5	65.1	0.3	2.2	68.1	62.0
Norway	306	72.1	0.3	1.9	4.5	13.5	0.0	3.5	4.2	72.4	0.9	3.3	70.1	74.1
Philippines	730	35.6	0.1	4.7	8.8	17.1	7.3	8.2	18.2	35.8	0.1	18.1	34.8	36.8
Portugal	418	50.9	0.6	6.4	10.9	20.5	2.0	0.6	8.1	51.6	0.0	8.1	51.5	51.6
Romania	466	47.3	0.7	6.4	10.0	14.7	2.9	0.4	17.6	48.0	0.0	17.6	50.7	44.5
Russian Federation	523	61.7	1.3	2.1	5.1	15.5	0.0	5.3	8.9	63.0	0.3	8.6	62.2	63.8
Scotland	362	59.7	0.2	6.6	8.2	16.2	2.7	1.7	4.5	59.9	0.0	4.5	56.8	62.8
Singapore	451	88.7	1.4	0.0	1.1	2.4	0.1	4.0	2.3	90.1	0.0	2.3	91.5	88.8
Slovak Republic	436	74.7	0.8	2.6	5.8	11.7	0.0	0.0	4.4	75.5	0.0	4.4	74.4	76.4
Slovenia	359	55.8	1.8	11.5	8.8	15.5	0.8	0.5	5.4	57.6	0.0	5.4	56.6	58.5
South Africa	645	14.3	0.0	4.5	9.2	9.6	28.3	5.6	28.4	14.3	2.6	25.9	12.2	16.9
Spain	467	45.7	0.0	13.7	9.8	24.3	0.8	0.3	5.3	45.7	0.0	5.3	42.3	49.0
Sweden	363	51.2	0.5	5.5	5.9	28.3	3.0	3.7	1.8	51.7	0.0	1.8	51.8	51.2
Switzerland	498	63.0	0.8	5.8	7.9	15.7	0.3	1.7	4.6	63.9	0.1	4.5	60.0	68.0
Thailand	734	75.1	1.0	2.6	4.2	10.7	4.7	0.0	1.7	76.1	0.3	1.3	74.3	78.6
United States	487	62.4	1.1	3.9	6.0	15.8	7.1	0.0	3.6	63.5	0.0	3.6	59.5	67.2
INTERNATIONAL AVG	.	60.7	0.6	4.4	6.4	15.3	2.8	1.7	8.0	61.4	0.5	7.5	61.1	61.6

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: M12  
 Complete table of voltage/current data for circuit. (Physics)  
 Difficulty: 571

COUNTRY	N	10	70	79	90	99	V1	NOT REACH ED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	715	47.5	36.3	4.8	1.0	10.4	47.5	0.5	9.9	42.8	52.9
Austria	371	59.8	19.6	12.1	2.2	6.3	59.8	0.0	6.3	56.1	62.9
Belgium (Fl)	344	73.7	9.5	8.3	0.0	8.6	73.7	0.0	8.6	69.1	77.6
Belgium (Fr)	289	60.3	0.0	20.3	0.0	19.4	60.3	1.3	18.1	54.6	65.8
Bulgaria	170	47.2	23.5	5.8	0.0	23.6	47.2	3.9	19.6	51.0	42.7
Canada	1016	37.5	42.3	13.2	0.4	6.6	37.5	0.1	6.6	25.8	50.5
Colombia	332	18.2	38.5	20.5	1.1	21.7	18.2	1.9	19.9	14.5	21.2
Cyprus	380	45.1	22.3	10.3	1.4	20.9	45.1	0.0	20.9	36.9	53.8
Czech Republic	415	52.9	29.5	12.1	0.2	5.3	52.9	0.3	5.0	45.7	60.2
Denmark	273	33.7	29.8	7.2	0.0	29.3	33.7	2.1	27.1	27.4	41.7
England	227	48.0	34.1	14.5	1.6	1.7	48.0	0.0	1.7	41.1	54.1
France	378	57.0	21.8	7.5	0.2	13.5	57.0	0.0	13.5	49.8	65.0
Germany	363	62.4	14.7	4.1	1.0	17.8	62.4	1.4	16.5	54.2	70.7
Greece	493	38.6	21.8	18.3	1.0	20.3	38.6	0.8	19.5	29.6	46.5
Hong Kong	422	65.8	17.9	8.6	0.5	7.2	65.8	0.0	7.2	57.3	71.5
Hungary	388	60.5	22.5	6.0	0.0	11.0	60.5	0.2	10.8	54.4	66.8
Iceland	248	36.0	43.3	11.4	0.0	9.3	36.0	0.0	9.3	27.7	43.2
Iran, Islamic Rep.	468	23.3	36.7	21.8	1.3	16.9	23.3	0.5	16.4	18.2	27.4
Ireland	378	53.2	30.5	9.6	0.5	6.1	53.2	0.0	6.1	41.6	68.8
Israel	.	.	.	.	.	.	.	.	.	.	.
Japan	644	67.8	24.0	5.9	0.0	2.3	67.8	0.2	2.2	58.7	76.5
Korea	359	72.4	21.8	5.3	0.0	0.5	72.4	0.0	0.5	63.2	79.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	31.2	27.9	10.8	1.7	28.4	31.2	1.1	27.3	25.5	36.8
Lithuania	310	25.2	18.6	8.1	0.8	47.3	25.2	3.8	43.5	17.8	33.5
Netherlands	257	72.5	12.7	6.8	0.0	8.0	72.5	0.3	7.7	66.5	78.3
New Zealand	402	41.9	38.7	11.3	0.3	7.8	41.9	0.5	7.3	36.5	47.3
Norway	306	39.3	29.0	10.5	4.1	17.1	39.3	0.9	16.3	26.7	49.0
Philippines	730	23.2	36.3	14.9	1.2	24.4	23.2	0.1	24.2	24.8	21.4
Portugal	418	27.6	34.3	14.2	0.3	23.6	27.6	0.0	23.6	20.0	36.8
Romania	466	40.7	24.3	8.9	0.0	26.2	40.7	1.1	25.1	41.0	39.6
Russian Federation	523	39.1	24.2	4.5	2.9	29.3	39.1	0.5	28.8	31.0	47.5
Scotland	362	43.7	40.8	11.6	0.3	3.7	43.7	0.0	3.7	35.5	50.4
Singapore	451	76.0	15.4	5.7	0.0	3.0	76.0	0.0	3.0	73.6	78.2
Slovak Republic	436	52.8	28.9	10.6	0.4	7.3	52.8	0.0	7.3	47.1	57.4
Slovenia	359	57.4	23.2	11.8	0.1	7.4	57.4	0.0	7.4	51.5	62.9
South Africa	645	6.7	33.3	18.4	1.8	39.8	6.7	4.0	35.8	4.5	9.2
Spain	467	33.8	37.3	13.9	0.0	15.0	33.8	0.3	14.6	26.1	41.1
Sweden	363	49.4	31.4	10.4	1.5	7.4	49.4	0.0	7.4	44.9	53.1
Switzerland	498	71.4	14.1	5.1	1.6	7.9	71.4	0.1	7.8	69.6	73.3
Thailand	734	51.7	31.6	9.7	0.1	7.0	51.7	0.4	6.6	53.5	50.1
United States	487	27.7	53.5	7.5	0.0	11.3	27.7	0.0	11.3	18.2	36.5
INTERNATIONAL AVG	.	46.8	27.4	10.6	0.7	14.5	46.8	0.7	13.9	40.9	52.5

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: M13 KEY: A  
 Know if oil-burning reaction absorbs or releases energy. (Chemistry)  
 Difficulty: 604

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	715	46.6	15.9	7.3	28.6	1.6	46.6	0.0	0.5	1.1	46.1	47.2
Austria	371	51.9	10.7	9.4	26.0	1.9	51.9	0.0	0.0	1.9	45.4	58.8
Belgium (Fl)	344	30.5	26.4	9.7	31.2	2.2	30.5	0.0	0.0	2.2	31.0	30.0
Belgium (Fr)	289	48.0	16.0	7.5	20.8	7.7	48.0	0.0	1.3	6.4	38.7	57.5
Bulgaria	170	50.1	14.9	2.8	21.8	10.4	50.1	0.0	4.3	6.1	53.1	46.6
Canada	1016	43.4	12.6	8.2	34.6	1.2	43.4	0.1	0.1	1.0	36.7	50.9
Colombia	332	23.6	9.2	11.7	51.1	4.3	23.6	0.0	2.6	1.7	16.3	31.3
Cyprus	380	50.1	15.4	8.4	23.0	3.1	50.1	0.0	0.0	3.1	48.2	52.0
Czech Republic	415	35.2	41.7	4.5	17.8	0.8	35.2	0.0	0.3	0.5	31.1	39.4
Denmark	273	15.2	33.9	11.6	33.7	5.7	15.2	0.3	2.4	2.9	10.5	21.2
England	227	52.5	16.5	4.4	25.8	0.8	52.5	0.0	0.0	0.8	47.0	57.2
France	378	52.6	13.0	6.1	25.1	3.2	52.6	0.0	0.0	3.2	47.2	57.0
Germany	364	54.1	8.7	10.8	16.6	9.8	54.1	0.7	2.3	6.8	53.0	56.2
Greece	493	45.5	14.3	7.4	29.8	2.9	45.5	0.2	0.8	2.0	42.0	48.6
Hong Kong	422	75.7	5.7	4.2	14.0	0.5	75.7	0.0	0.0	0.5	76.0	75.5
Hungary	388	53.1	16.7	4.4	22.0	3.7	53.1	0.3	0.5	2.8	48.6	57.8
Iceland	248	17.5	43.7	6.4	31.1	1.3	17.5	0.0	1.1	0.2	17.1	17.9
Iran, Islamic Rep.	468	43.9	9.7	10.7	34.8	1.0	43.9	0.0	0.5	0.5	47.3	40.9
Ireland	378	50.9	13.1	7.2	28.2	0.6	50.9	0.0	0.0	0.6	43.9	60.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	644	56.6	14.2	5.9	22.6	0.7	56.6	0.2	0.2	0.3	48.8	64.1
Korea	359	57.6	22.0	2.7	17.5	0.3	57.6	0.0	0.0	0.3	44.3	67.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	17.8	15.4	11.1	42.8	12.9	17.8	0.0	1.7	11.1	14.4	21.1
Lithuania	310	22.1	11.5	6.2	43.8	16.4	22.1	0.0	3.8	12.5	21.2	23.1
Netherlands	257	18.7	43.2	12.2	24.9	1.0	18.7	0.0	0.3	0.7	17.5	20.1
New Zealand	402	40.0	14.5	12.0	32.4	1.2	40.0	0.0	0.5	0.7	35.1	44.9
Norway	306	27.0	30.0	13.4	26.6	3.0	27.0	0.0	0.9	2.1	24.9	28.5
Philippines	730	20.3	13.0	14.0	52.3	0.4	20.3	0.1	0.1	0.1	20.1	20.5
Portugal	418	44.0	16.5	9.1	28.8	1.6	44.0	0.0	0.2	1.4	35.4	54.6
Romania	467	28.8	6.8	9.3	48.2	6.9	28.8	0.5	1.3	5.0	26.8	31.3
Russian Federation	523	29.5	9.8	8.6	37.5	14.8	29.5	0.7	1.5	12.6	26.1	32.9
Scotland	362	43.5	14.1	6.4	35.1	0.9	43.5	0.0	0.0	0.9	38.9	47.5
Singapore	451	61.7	7.4	5.8	24.3	0.7	61.7	0.0	0.0	0.7	60.6	62.8
Slovak Republic	436	30.2	11.1	9.7	45.4	3.6	30.2	0.0	0.0	3.6	25.4	34.1
Slovenia	358	39.9	41.9	4.4	10.5	3.2	39.9	0.3	0.5	2.5	35.7	43.8
South Africa	645	18.9	26.4	11.8	35.7	7.1	18.9	0.4	4.2	2.6	16.0	22.3
Spain	467	59.4	16.2	6.9	16.0	1.5	59.4	0.0	0.3	1.2	57.4	61.2
Sweden	363	40.8	28.8	10.4	19.9	0.0	40.8	0.0	0.0	0.0	32.8	48.0
Switzerland	498	39.1	18.3	12.5	26.9	3.3	39.1	0.2	0.1	3.1	28.9	49.8
Thailand	734	30.2	11.6	5.9	50.7	1.7	30.2	0.0	0.5	1.2	27.4	33.7
United States	487	45.0	16.2	10.5	27.1	1.2	45.0	0.0	0.0	1.2	42.2	47.6
INTERNATIONAL AVG	.	40.3	18.2	8.3	29.6	3.6	40.3	0.1	0.8	2.7	36.5	44.2

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent



Item: M14  
 Draw reflected image of object. (Physics)  
 Difficulty: 454

COUNTRY	N	NOT REACH										ED	OMIT	1.GIRL % Right	2.BOY % Right	
		10	11	12	70	71	72	73	79	90	99					V1
Australia	715	67.6	0.3	0.5	7.7	0.6	16.5	0.3	1.7	0.3	4.4	68.4	0.5	4.0	66.3	70.8
Austria	371	68.8	1.2	3.3	9.3	0.8	12.5	0.6	1.0	0.5	2.0	73.4	0.0	2.0	72.9	72.5
Belgium (Fl)	344	78.6	0.9	0.8	6.2	1.5	5.0	0.4	3.8	0.5	2.4	80.2	0.0	2.4	81.0	79.6
Belgium (Fr)	289	68.7	0.0	0.0	0.0	0.0	0.0	0.0	27.1	0.0	4.1	68.7	1.3	2.8	70.0	67.3
Bulgaria	170	56.7	0.0	1.7	11.0	0.5	10.7	1.0	1.1	0.6	16.7	58.4	4.7	12.0	61.2	55.1
Canada	1016	68.5	0.1	1.2	8.2	1.2	14.5	1.2	2.6	0.5	2.1	69.8	0.1	2.0	69.0	71.1
Colombia	332	45.2	0.0	1.9	3.6	0.9	29.4	1.8	8.1	0.0	9.0	47.1	2.7	6.3	39.6	55.1
Cyprus	380	44.6	0.0	0.2	2.9	1.2	25.2	1.7	3.0	2.0	19.3	44.8	0.2	19.0	44.6	45.1
Czech Republic	415	66.1	0.3	2.2	12.7	0.6	9.4	1.0	2.4	0.8	4.5	68.6	0.3	4.1	67.5	69.7
Denmark	273	77.9	0.0	2.4	5.9	0.5	5.1	0.0	1.8	0.4	5.9	80.4	2.4	3.5	80.7	81.0
England	227	78.7	0.4	1.0	8.0	0.4	8.2	0.7	1.5	0.8	0.4	80.1	0.0	0.4	73.5	85.9
France	378	73.1	0.0	1.7	11.1	1.8	4.6	0.3	0.8	0.2	6.5	74.7	0.0	6.5	79.3	71.0
Germany	363	67.4	2.6	3.2	10.7	0.8	6.0	0.2	2.0	0.2	6.9	73.1	2.3	4.6	74.3	71.4
Greece	493	38.7	1.0	8.3	5.9	1.5	27.0	2.0	3.5	2.0	10.3	48.0	0.8	9.6	48.8	47.3
Hong Kong	422	76.6	0.0	3.5	7.9	0.0	5.2	0.9	2.7	0.5	2.7	80.1	0.0	2.7	77.2	82.1
Hungary	388	81.6	0.6	1.3	3.6	0.8	7.4	0.0	2.0	0.0	2.8	83.4	0.5	2.2	86.0	80.8
Iceland	248	68.4	0.8	6.8	6.9	1.6	8.1	3.8	0.0	0.9	2.8	76.0	1.1	1.7	80.8	71.9
Iran, Islamic Rep.	468	46.1	0.2	5.6	4.6	1.8	19.9	0.8	4.7	3.1	13.2	51.9	0.5	12.7	47.7	55.1
Ireland	378	55.9	0.2	4.5	11.5	1.0	17.7	1.7	5.3	1.0	1.0	60.6	0.0	1.0	63.2	57.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	644	80.8	0.4	0.0	8.7	0.9	3.7	0.8	2.4	0.7	1.7	81.2	0.2	1.6	84.5	78.0
Korea	359	74.6	2.4	0.2	9.4	1.0	7.2	0.3	3.1	0.0	1.9	77.2	0.0	1.9	74.5	79.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	63.3	1.2	1.8	3.2	0.9	14.1	1.0	1.1	1.1	12.2	66.3	1.9	10.3	62.9	69.4
Lithuania	310	60.9	0.0	2.0	2.3	0.7	18.9	0.3	0.5	1.1	13.1	62.9	4.1	9.0	61.4	64.7
Netherlands	257	74.9	0.1	3.2	10.7	1.7	6.8	0.3	0.8	0.5	1.0	78.3	0.3	0.7	81.4	75.7
New Zealand	402	66.0	0.0	1.5	13.3	0.8	9.9	4.1	2.2	0.0	2.1	67.5	0.5	1.7	70.6	64.3
Norway	307	54.8	0.3	4.4	12.9	0.8	15.5	1.2	6.9	0.0	3.3	59.5	1.2	2.1	53.0	64.4
Philippines	728	47.0	0.7	1.4	2.7	0.4	19.9	0.8	9.2	2.1	15.8	49.0	0.1	15.7	43.8	54.7
Portugal	417	53.3	0.4	4.2	12.6	0.9	20.8	2.0	1.9	0.2	3.7	57.8	0.2	3.5	55.9	60.2
Romania	467	45.1	0.5	1.4	4.5	0.2	24.7	3.0	5.8	1.2	13.6	46.9	1.3	12.3	45.2	49.3
Russian Federation	523	74.9	0.6	0.8	2.9	0.5	13.4	1.6	0.8	0.3	4.2	76.2	1.5	2.7	77.4	75.0
Scotland	362	76.3	0.0	2.6	4.7	0.5	11.7	1.4	1.1	0.2	1.5	79.0	0.0	1.5	74.7	82.9
Singapore	451	76.4	0.0	0.5	7.8	1.7	10.5	0.5	1.0	0.2	1.4	76.9	0.0	1.4	74.5	79.1
Slovak Republic	436	65.6	1.2	4.5	9.7	1.4	10.3	1.8	2.2	0.2	3.2	71.2	0.0	3.2	70.1	72.1
Slovenia	359	71.6	0.3	1.9	5.9	0.6	12.6	1.7	3.1	0.3	2.1	73.7	0.5	1.7	73.3	74.1
South Africa	645	19.9	0.6	2.4	3.4	1.0	10.5	1.4	21.5	2.7	36.6	22.9	4.2	32.4	17.5	29.2
Spain	467	57.2	0.0	3.0	9.5	1.0	17.6	1.1	6.7	0.0	3.7	60.3	0.3	3.4	62.4	58.3
Sweden	363	59.6	0.0	1.5	15.2	1.1	16.8	1.7	2.4	0.0	1.7	61.1	0.0	1.7	63.4	59.0
Switzerland	497	77.0	0.0	1.2	7.0	1.3	7.0	0.9	2.1	1.8	1.7	78.2	0.1	1.6	79.8	76.5
Thailand	734	57.6	0.3	5.9	8.5	0.4	11.5	0.3	10.1	0.1	5.4	63.8	0.5	4.9	59.6	68.9
United States	487	56.2	0.4	1.8	9.7	1.1	16.3	3.4	7.4	0.0	3.7	58.4	0.0	3.7	54.1	62.3
INTERNATIONAL AVG	.	63.6	0.4	2.4	7.6	0.9	12.8	1.2	4.2	0.7	6.3	66.4	0.9	5.4	65.6	67.2

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: N01 KEY: D  
 Determine correct control experiment to test hypothesis. (Environment and other content)  
 Difficulty: 624

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	690	26.2	8.7	9.2	41.8	12.0	2.1	41.8	0.0	0.0	2.1	46.6	37.1
Austria	380	25.7	5.9	7.4	43.3	14.9	2.8	43.3	0.0	0.4	2.4	43.7	42.8
Belgium (Fl)	336	29.9	9.2	9.5	41.8	8.8	0.8	41.8	0.0	0.0	0.8	40.8	42.8
Belgium (Fr)	288	24.2	9.9	6.1	40.2	17.3	2.3	40.2	0.0	0.3	2.0	39.6	41.0
Bulgaria	175	22.1	4.8	8.0	42.1	20.5	2.4	42.1	0.0	0.0	2.4	43.4	40.4
Canada	1015	27.3	6.2	7.9	46.3	10.1	2.2	46.3	0.0	0.0	2.2	45.5	47.0
Colombia	340	31.9	6.8	2.6	44.2	9.4	5.0	44.2	2.1	0.0	2.9	38.7	51.2
Cyprus	388	26.8	6.9	7.7	29.6	17.6	11.5	29.6	1.9	0.0	9.6	27.5	31.5
Czech Republic	412	28.6	5.9	3.8	38.7	19.3	3.8	38.7	1.9	0.0	1.9	41.8	35.7
Denmark	279	28.0	9.6	4.8	39.5	9.0	9.2	39.5	1.5	0.0	7.7	43.1	36.0
England	230	35.8	7.8	5.1	40.1	9.7	1.5	40.1	0.0	0.0	1.5	38.7	41.3
France	384	17.2	7.4	6.5	43.2	22.4	3.4	43.2	1.7	0.3	1.4	42.3	42.4
Germany	367	20.8	9.5	8.9	39.7	10.0	11.1	39.7	1.4	0.6	9.1	37.7	42.3
Greece	505	17.2	10.6	10.4	41.6	15.6	4.6	41.6	0.8	0.0	3.8	40.8	42.8
Hong Kong	433	24.4	10.4	5.0	52.0	8.1	0.0	52.0	0.0	0.0	0.0	53.4	51.1
Hungary	376	27.6	5.6	4.1	25.4	32.2	5.1	25.4	0.0	0.0	5.1	27.8	23.2
Iceland	241	31.5	11.5	7.2	33.1	10.9	5.8	33.1	1.4	0.0	4.4	30.1	35.7
Iran, Islamic Rep.	476	34.8	7.8	9.9	22.4	18.0	7.2	22.4	1.1	0.0	6.2	17.6	25.9
Ireland	398	32.7	9.0	5.7	37.5	12.6	2.5	37.5	0.6	0.0	2.0	36.3	38.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	29.6	6.9	1.5	57.9	3.4	0.6	57.9	0.3	0.0	0.3	59.7	56.2
Korea	362	40.1	13.2	6.2	29.8	10.2	0.5	29.8	0.0	0.0	0.5	27.9	31.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	313	28.1	4.7	5.4	37.5	17.3	7.0	37.5	0.0	0.0	7.0	34.7	40.3
Lithuania	309	16.0	7.4	9.1	29.1	25.8	12.6	29.1	1.0	0.0	11.6	31.7	26.8
Netherlands	248	18.1	11.4	4.1	61.6	3.1	1.7	61.6	0.0	0.0	1.7	61.7	61.5
New Zealand	387	27.9	5.8	6.1	43.7	13.6	2.9	43.7	0.8	0.0	2.1	40.8	46.6
Norway	304	8.5	10.5	10.9	46.6	19.6	3.9	46.6	0.0	0.0	3.9	47.0	46.1
Philippines	740	27.7	3.5	4.6	46.8	16.1	1.4	46.8	0.4	0.0	0.9	49.2	44.2
Portugal	424	24.7	6.1	6.7	36.3	22.2	4.0	36.3	0.0	0.0	4.0	35.8	36.9
Romania	470	22.7	6.3	8.2	30.3	22.5	10.0	30.3	1.8	0.4	7.7	33.6	27.3
Russian Federation	509	24.7	7.4	3.6	26.3	29.9	8.2	26.3	0.6	0.0	7.6	23.6	29.2
Scotland	352	32.6	6.5	6.0	39.0	12.5	3.3	39.0	1.1	0.0	2.2	34.5	43.2
Singapore	445	23.0	2.7	7.0	64.0	3.1	0.2	64.0	0.0	0.0	0.2	63.9	64.1
Slovak Republic	445	24.2	7.7	5.8	44.1	14.4	3.7	44.1	0.5	0.0	3.2	42.0	46.6
Slovenia	365	29.8	5.6	11.4	35.0	14.4	3.8	35.0	1.1	0.0	2.7	38.6	31.2
South Africa	647	20.1	5.5	13.7	34.5	15.5	10.7	34.5	1.4	0.4	8.9	33.1	36.4
Spain	457	22.1	8.0	7.6	44.7	11.4	6.2	44.7	0.0	0.0	6.2	46.1	43.5
Sweden	359	10.1	5.2	5.1	58.5	18.3	2.7	58.5	0.6	0.0	2.1	61.6	55.3
Switzerland	515	18.3	9.2	7.2	45.8	12.9	6.6	45.8	0.2	0.0	6.4	50.7	40.8
Thailand	725	47.0	7.8	8.2	27.9	8.4	0.7	27.9	0.0	0.0	0.7	26.1	29.8
United States	473	29.5	5.7	8.6	41.3	13.2	1.8	41.3	0.1	0.0	1.6	42.9	39.8
INTERNATIONAL AVG	.	25.9	7.5	6.9	40.6	14.7	4.4	40.6	0.6	0.1	3.7	40.5	40.6

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: N02 KEY: B  
 Choose meal which would give the most nutrients. (Life Science)  
 Difficulty: 648

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	690	5.6	48.1	32.8	12.8	0.7	48.1	0.0	0.0	0.7	57.1	39.6
Austria	380	5.1	38.2	50.7	4.9	1.2	38.2	0.0	0.4	0.7	39.4	36.0
Belgium (Fl)	336	5.4	53.3	29.2	11.3	0.9	53.3	0.0	0.0	0.9	62.3	44.3
Belgium (Fr)	288	10.8	29.4	41.4	14.8	3.6	29.4	0.6	0.3	2.6	36.5	22.0
Bulgaria	175	19.1	34.6	37.5	7.1	1.7	34.6	0.0	0.0	1.7	30.2	40.4
Canada	1015	2.6	59.7	24.9	11.6	1.2	59.7	0.1	0.0	1.1	65.4	55.5
Colombia	340	14.1	13.3	65.4	6.0	1.3	13.3	0.0	0.0	1.3	14.5	11.5
Cyprus	388	6.9	48.8	37.0	5.3	1.9	48.8	1.0	0.0	0.9	51.5	46.2
Czech Republic	401	8.2	50.3	33.6	7.0	0.9	50.3	0.6	0.0	0.3	49.5	51.0
Denmark	279	15.4	43.6	30.8	7.8	2.4	43.6	1.2	0.0	1.2	49.4	36.6
England	230	8.8	40.1	32.7	16.6	1.8	40.1	0.0	0.0	1.8	39.5	40.7
France	384	19.5	26.7	36.1	14.8	2.9	26.7	0.9	0.3	1.7	29.6	23.1
Germany	367	6.3	39.8	43.2	7.3	3.5	39.8	1.4	0.6	1.4	45.2	34.0
Greece	505	10.7	33.3	35.2	18.6	2.2	33.3	1.1	0.0	1.2	35.1	31.5
Hong Kong	433	7.7	48.0	26.4	18.0	0.0	48.0	0.0	0.0	0.0	53.6	43.7
Hungary	376	11.0	23.7	40.2	19.3	5.8	23.7	0.0	0.0	5.8	28.8	19.1
Iceland	241	3.0	39.2	22.7	34.5	0.6	39.2	0.0	0.0	0.6	41.8	36.9
Iran, Islamic Rep.	476	10.3	31.6	20.4	37.2	0.5	31.6	0.1	0.0	0.4	33.4	30.3
Ireland	398	11.8	30.8	41.9	15.0	0.5	30.8	0.2	0.0	0.2	32.9	28.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	6.9	35.6	42.8	14.6	0.1	35.6	0.1	0.0	0.0	32.5	38.5
Korea	362	10.2	53.6	27.3	8.7	0.3	53.6	0.0	0.0	0.3	53.9	53.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	313	12.9	24.1	48.4	12.9	1.7	24.1	0.0	0.3	1.3	29.2	19.0
Lithuania	309	8.6	23.4	55.4	7.7	4.9	23.4	0.8	0.2	3.9	22.9	23.9
Netherlands	248	4.5	45.8	41.2	7.7	0.8	45.8	0.0	0.2	0.6	49.2	42.3
New Zealand	387	5.5	32.5	55.4	6.3	0.3	32.5	0.0	0.0	0.3	34.7	30.3
Norway	304	6.6	62.7	13.7	14.8	2.1	62.7	0.0	0.0	2.1	68.0	57.4
Philippines	740	7.6	33.6	52.4	6.2	0.1	33.6	0.0	0.0	0.1	35.4	31.8
Portugal	424	4.5	32.2	46.5	14.4	2.5	32.2	0.0	0.0	2.5	32.0	32.4
Romania	470	25.0	19.4	36.4	11.7	7.4	19.4	5.1	0.4	1.9	20.5	18.5
Russian Federation	510	9.3	21.4	48.4	19.5	1.4	21.4	0.5	0.0	0.9	26.3	16.2
Scotland	352	12.1	23.9	50.8	11.6	1.5	23.9	1.2	0.3	0.0	26.8	21.2
Singapore	445	9.6	60.2	15.9	13.8	0.5	60.2	0.0	0.0	0.5	67.0	53.4
Slovak Republic	445	5.6	30.6	55.8	6.3	1.7	30.6	0.8	0.0	0.9	33.2	27.6
Slovenia	365	16.3	32.0	40.5	8.9	2.4	32.0	1.5	0.0	0.9	31.5	32.5
South Africa	647	12.4	19.0	52.0	13.9	2.7	19.0	0.4	0.4	1.9	20.8	17.0
Spain	457	9.4	27.7	48.5	12.9	1.5	27.7	0.0	0.0	1.5	27.1	28.2
Sweden	359	9.9	43.5	30.3	15.0	1.3	43.5	0.3	0.0	1.0	48.6	38.3
Switzerland	515	10.8	32.5	50.6	5.3	0.9	32.5	0.5	0.0	0.4	30.5	34.2
Thailand	725	6.4	59.3	16.2	16.7	1.4	59.3	0.0	0.0	1.4	58.2	60.4
United States	473	2.8	51.0	29.8	15.5	0.8	51.0	0.2	0.0	0.6	51.5	50.6
INTERNATIONAL AVG	.	9.5	37.4	38.5	12.9	1.7	37.4	0.5	0.1	1.2	39.9	35.0

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: N03 KEY: C

Select conclusion shown from experiment comparing liquid evaporation rates. (Environment and other content)

Difficulty: 526

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	690	4.9	21.5	65.8	5.7	2.0	0.2	65.8	0.0	0.0	0.2	66.3	65.2
Austria	380	6.9	25.3	57.0	2.0	5.1	3.7	57.0	0.0	0.4	3.2	52.8	62.6
Belgium (Fl)	336	3.2	17.9	70.5	5.9	1.8	0.7	70.5	0.0	0.0	0.7	70.2	70.8
Belgium (Fr)	288	7.4	16.2	68.5	2.1	2.7	3.1	68.5	0.0	0.3	2.8	72.1	63.2
Bulgaria	175	6.9	8.0	76.7	1.6	3.4	3.4	76.7	0.7	0.0	2.7	79.2	73.4
Canada	1015	7.7	15.4	69.7	3.1	1.5	2.5	69.7	0.0	0.0	2.5	69.5	71.1
Colombia	340	7.8	34.5	44.2	8.9	2.7	1.8	44.2	0.0	0.3	1.5	43.5	45.0
Cyprus	388	8.2	28.5	48.6	8.7	4.1	1.9	48.6	0.7	0.0	1.2	50.0	47.2
Czech Republic	401	6.5	39.1	46.2	2.3	4.7	1.3	46.2	1.1	0.0	0.3	36.5	55.1
Denmark	279	8.4	31.6	48.1	4.6	2.8	4.5	48.1	1.6	0.0	2.9	47.6	49.3
England	230	5.7	22.8	59.4	6.6	3.4	2.1	59.4	0.0	0.0	2.1	63.7	55.7
France	384	6.9	13.9	64.9	6.7	2.9	4.7	64.9	2.8	0.3	1.6	63.3	67.0
Germany	367	5.2	37.6	42.2	4.7	3.1	7.2	42.2	4.7	0.6	1.8	44.0	40.3
Greece	505	13.6	27.7	44.1	9.3	3.9	1.4	44.1	0.7	0.0	0.7	44.9	43.6
Hong Kong	433	9.5	15.2	63.1	7.1	4.7	0.4	63.1	0.0	0.0	0.4	67.7	59.2
Hungary	376	12.6	2.9	67.9	3.3	5.8	7.4	67.9	0.0	0.0	7.4	70.1	65.9
Iceland	241	7.0	31.8	47.9	3.8	7.6	1.9	47.9	1.0	0.0	0.9	42.2	52.9
Iran, Islamic Rep.	476	10.2	13.1	63.5	5.3	7.3	0.7	63.5	0.0	0.0	0.7	58.5	67.1
Ireland	398	6.0	26.0	61.5	3.3	2.9	0.3	61.5	0.0	0.0	0.3	57.4	65.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	7.0	56.5	27.2	4.7	3.7	0.9	27.2	0.6	0.0	0.3	23.5	30.7
Korea	362	3.7	16.5	75.7	1.7	2.2	0.2	75.7	0.0	0.0	0.2	74.8	76.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	313	9.3	17.4	54.4	8.3	5.5	5.2	54.4	0.0	0.3	4.9	49.4	59.5
Lithuania	309	6.2	32.5	38.5	7.0	6.0	9.7	38.5	1.1	0.2	8.5	34.1	42.6
Netherlands	248	5.9	12.4	71.8	7.0	1.9	1.0	71.8	0.0	0.2	0.8	66.3	77.4
New Zealand	387	8.1	22.0	63.2	3.8	2.2	0.7	63.2	0.2	0.0	0.5	65.8	60.6
Norway	304	5.9	30.7	53.3	4.4	4.1	1.5	53.3	0.0	0.0	1.5	51.7	54.9
Philippines	740	11.2	26.6	44.2	11.8	5.7	0.5	44.2	0.0	0.0	0.5	44.3	43.9
Portugal	424	4.8	41.1	34.4	14.4	3.4	1.9	34.4	0.0	0.0	1.9	32.4	36.7
Romania	470	8.1	18.0	47.8	5.6	10.6	9.8	47.8	4.4	0.4	5.0	49.3	46.7
Russian Federation	510	6.7	32.4	48.2	7.9	2.8	2.0	48.2	0.3	0.0	1.7	44.3	52.3
Scotland	352	7.0	17.8	67.1	3.5	3.6	1.1	67.1	0.3	0.3	0.5	68.1	66.1
Singapore	445	5.0	22.6	67.9	2.4	1.5	0.6	67.9	0.0	0.0	0.6	65.2	70.5
Slovak Republic	445	6.0	51.1	33.5	3.4	3.2	2.9	33.5	1.1	0.0	1.8	31.8	35.3
Slovenia	365	8.9	9.5	73.1	3.6	1.2	3.7	73.1	3.0	0.0	0.7	71.1	75.1
South Africa	647	11.3	35.4	23.3	12.2	13.0	4.8	23.3	0.3	0.4	4.1	25.9	20.7
Spain	457	7.8	30.8	53.2	4.7	1.8	1.6	53.2	0.0	0.0	1.6	50.2	55.9
Sweden	359	4.6	33.6	50.6	5.3	4.2	1.7	50.6	0.3	0.0	1.4	50.6	50.9
Switzerland	515	5.4	39.0	43.4	7.6	1.5	3.2	43.4	2.0	0.0	1.2	38.0	49.3
Thailand	725	13.3	28.3	47.4	8.7	1.3	1.1	47.4	0.0	0.0	1.1	45.2	50.4
United States	473	8.7	14.5	68.9	5.9	1.4	0.5	68.9	0.0	0.0	0.5	72.9	65.2
INTERNATIONAL AVG	.	7.5	25.4	54.9	5.7	3.8	2.6	54.9	0.7	0.1	1.8	53.9	56.0

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: N04 KEY: B  
 Identify how decaying fish fertilize plants. (Life Science)  
 Difficulty: 584

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	690	5.0	43.3	41.7	3.1	5.9	1.0	43.3	0.0	0.0	1.0	38.4	48.0
Austria	380	2.5	34.4	53.8	4.6	1.5	3.3	34.4	0.0	0.4	2.8	31.8	40.0
Belgium (Fl)	336	11.8	47.3	28.8	7.4	2.1	2.6	47.3	0.0	0.0	2.6	46.5	48.2
Belgium (Fr)	288	6.7	42.2	30.7	7.2	6.1	7.1	42.2	0.0	0.3	6.8	42.4	41.9
Bulgaria	175	9.9	43.0	33.3	4.5	6.3	3.0	43.0	0.7	0.0	2.3	44.6	40.9
Canada	1015	4.3	45.7	36.4	4.2	5.9	3.5	45.7	0.1	0.0	3.3	48.2	43.7
Colombia	340	17.9	35.5	23.0	8.3	13.9	1.4	35.5	0.0	0.3	1.1	30.6	41.9
Cyprus	388	6.7	43.1	34.9	8.0	4.0	3.3	43.1	0.3	0.0	3.0	45.1	41.2
Czech Republic	401	12.5	51.4	28.2	3.9	2.4	1.6	51.4	0.0	0.0	1.6	52.1	50.6
Denmark	279	8.3	37.6	22.4	17.3	6.7	7.7	37.6	2.6	0.4	4.7	37.6	38.0
England	230	7.8	42.4	31.9	7.4	8.9	1.6	42.4	0.0	0.0	1.6	37.3	46.8
France	384	5.8	49.8	25.8	4.5	7.3	6.7	49.8	2.9	0.3	3.6	43.0	56.0
Germany	367	4.7	34.0	43.0	3.5	4.2	10.6	34.0	3.7	0.6	6.3	35.9	31.9
Greece	505	5.8	60.1	20.2	3.4	7.5	3.0	60.1	0.7	0.0	2.3	59.0	61.5
Hong Kong	432	11.6	60.0	19.9	4.1	4.1	0.2	60.0	0.0	0.0	0.2	57.6	61.8
Hungary	376	9.1	73.1	9.7	1.0	3.2	3.9	73.1	0.0	0.0	3.9	74.6	71.8
Iceland	241	11.4	45.7	24.9	8.7	7.6	1.5	45.7	0.4	0.0	1.1	41.7	49.2
Iran, Islamic Rep.	476	16.2	45.9	18.1	7.0	11.5	1.3	45.9	0.3	0.0	1.0	43.9	47.5
Ireland	398	9.3	50.7	27.7	7.0	4.0	1.3	50.7	0.4	0.0	0.9	51.4	49.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	13.0	36.9	46.7	1.0	2.1	0.3	36.9	0.0	0.0	0.3	35.9	37.8
Korea	362	10.2	71.7	14.7	2.0	0.9	0.5	71.7	0.0	0.0	0.5	72.6	71.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	313	7.9	58.8	21.9	3.6	2.1	5.7	58.8	0.0	0.3	5.3	55.3	62.4
Lithuania	309	5.4	45.2	23.6	8.6	5.7	11.6	45.2	0.6	0.2	10.9	41.0	49.1
Netherlands	248	8.2	57.4	22.9	5.1	2.9	3.4	57.4	0.0	0.2	3.2	63.9	50.7
New Zealand	387	3.8	41.9	37.6	7.5	6.8	2.4	41.9	0.5	0.0	1.9	40.1	43.8
Norway	304	14.1	36.7	36.9	2.9	5.9	3.4	36.7	0.0	0.0	3.4	44.1	29.2
Philippines	740	11.8	40.5	15.1	13.2	17.0	2.3	40.5	0.0	0.0	2.3	38.3	42.8
Portugal	424	9.8	40.5	23.6	6.7	14.7	4.6	40.5	0.0	0.0	4.6	38.6	42.7
Romania	471	4.4	43.0	29.5	6.2	8.2	8.7	43.0	2.9	0.4	5.4	44.2	42.0
Russian Federation	510	4.8	63.3	23.4	2.6	3.0	2.8	63.3	0.2	0.0	2.6	56.3	70.8
Scotland	352	11.3	28.8	37.2	10.2	10.2	2.3	28.8	0.3	0.3	1.6	27.3	30.1
Singapore	445	1.5	83.2	9.6	3.3	1.9	0.4	83.2	0.0	0.0	0.4	81.2	85.3
Slovak Republic	445	12.8	32.7	38.9	3.7	7.3	4.5	32.7	0.5	0.0	4.0	28.5	37.5
Slovenia	365	6.0	49.1	31.1	4.7	5.6	3.6	49.1	1.6	0.0	1.9	47.1	51.2
South Africa	647	11.7	22.9	18.0	16.0	27.5	3.8	22.9	0.5	0.5	2.8	22.8	23.3
Spain	457	5.8	43.3	34.8	5.0	8.6	2.6	43.3	0.0	0.0	2.6	44.8	42.0
Sweden	359	9.4	37.3	37.9	10.2	3.8	1.4	37.3	0.0	0.0	1.4	36.3	38.0
Switzerland	515	7.4	42.1	31.1	8.8	6.6	4.0	42.1	1.0	0.0	3.0	42.0	42.0
Thailand	725	2.3	82.0	12.7	1.1	0.8	1.0	82.0	0.0	0.0	1.0	84.2	78.9
United States	473	4.1	55.3	29.9	4.4	4.2	2.2	55.3	0.2	0.0	1.9	53.2	57.4
INTERNATIONAL AVG	.	8.3	47.5	28.3	6.1	6.5	3.4	47.5	0.5	0.1	2.8	46.5	48.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: N05 KEY: C  
 Identify a principal cause of acid rain. (Environment and other content)  
 Difficulty: 704

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	690	21.5	32.3	32.1	12.4	1.7	32.1	0.0	0.0	1.7	26.3	37.6
Austria	380	27.8	15.8	40.4	12.0	4.0	40.4	0.0	0.4	3.6	37.4	43.2
Belgium (Fl)	336	33.8	25.2	30.0	9.2	1.8	30.0	0.0	0.0	1.8	30.8	29.2
Belgium (Fr)	.	.	.	.	.	.	.	.	.	.	.	.
Bulgaria	175	35.6	33.5	19.6	4.3	7.0	19.6	1.4	0.0	5.6	23.0	15.0
Canada	1015	28.8	31.3	27.0	10.8	2.1	27.0	0.0	0.0	2.1	22.5	30.3
Colombia	340	30.2	33.0	24.6	9.9	2.3	24.6	0.0	0.3	2.0	22.7	27.4
Cyprus	388	22.9	41.4	25.1	5.6	5.0	25.1	0.0	0.0	5.0	23.8	26.3
Czech Republic	400	21.5	26.6	37.9	11.4	2.6	37.9	0.7	0.0	1.8	31.2	44.1
Denmark	279	18.5	33.8	22.0	16.2	9.4	22.0	0.4	0.4	8.6	22.3	21.8
England	230	22.4	37.6	28.5	11.0	0.5	28.5	0.0	0.0	0.5	22.5	33.8
France	.	.	.	.	.	.	.	.	.	.	.	.
Germany	367	27.1	14.8	37.7	10.2	10.3	37.7	2.9	0.6	6.7	30.1	45.6
Greece	505	25.0	45.4	21.3	3.9	4.3	21.3	0.2	0.0	4.1	22.1	20.1
Hong Kong	432	30.0	28.6	34.0	6.9	0.5	34.0	0.0	0.0	0.5	36.9	31.3
Hungary	376	24.4	23.7	39.8	8.3	3.8	39.8	0.0	0.0	3.8	35.7	43.4
Iceland	241	22.3	32.3	35.8	7.5	2.1	35.8	0.6	0.0	1.5	33.5	37.7
Iran, Islamic Rep.	476	40.6	25.8	24.3	6.8	2.4	24.3	0.0	0.0	2.4	21.4	26.4
Ireland	398	20.7	30.4	36.0	12.2	0.7	36.0	0.3	0.0	0.5	37.6	34.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	26.1	23.6	37.2	12.8	0.3	37.2	0.1	0.0	0.1	33.9	40.4
Korea	362	13.5	32.6	47.9	5.7	0.3	47.9	0.0	0.0	0.3	45.6	49.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	313	31.2	30.0	21.0	9.7	8.1	21.0	0.0	0.3	7.8	21.0	21.0
Lithuania	309	22.7	20.4	22.7	10.3	23.8	22.7	0.7	0.2	23.0	28.0	18.0
Netherlands	248	32.1	13.6	38.2	11.9	4.2	38.2	0.0	0.2	4.0	41.1	35.3
New Zealand	387	18.0	41.1	26.3	13.7	0.8	26.3	0.0	0.0	0.8	22.8	29.8
Norway	304	27.3	34.4	24.1	10.7	3.5	24.1	0.0	0.0	3.5	22.9	25.3
Philippines	740	23.9	33.9	24.7	16.2	1.2	24.7	0.0	0.0	1.2	22.7	27.0
Portugal	424	33.0	30.0	25.3	7.8	3.9	25.3	0.0	0.0	3.9	25.5	25.0
Romania	467	18.2	28.1	25.2	16.0	12.5	25.2	4.3	0.4	7.8	25.1	25.5
Russian Federation	510	32.4	36.5	18.9	6.9	5.3	18.9	0.1	0.0	5.2	17.0	21.0
Scotland	352	27.8	29.7	27.9	12.6	2.0	27.9	0.0	0.3	1.7	27.2	28.6
Singapore	445	22.7	37.6	31.2	7.4	1.1	31.2	0.0	0.0	1.1	33.3	29.1
Slovak Republic	444	22.0	43.6	21.2	9.3	3.9	21.2	0.5	0.0	3.4	17.3	25.5
Slovenia	365	14.9	13.7	59.4	9.0	3.0	59.4	1.7	0.0	1.3	53.1	66.1
South Africa	647	23.4	39.6	23.0	10.6	3.4	23.0	0.2	0.5	2.6	23.8	22.2
Spain	457	33.3	18.7	37.5	8.2	2.4	37.5	0.0	0.0	2.4	38.9	36.2
Sweden	359	33.8	25.3	25.7	14.4	0.7	25.7	0.0	0.0	0.7	22.3	29.2
Switzerland	515	25.4	19.3	35.0	13.9	6.3	35.0	0.2	0.0	6.1	30.6	39.4
Thailand	725	27.3	17.3	51.3	3.6	0.5	51.3	0.0	0.0	0.5	50.3	51.7
United States	473	21.5	36.6	31.8	8.9	1.2	31.8	0.0	0.0	1.2	29.3	34.1
INTERNATIONAL AVG	.	25.9	29.4	30.8	10.0	3.9	30.8	0.4	0.1	3.4	29.3	32.3

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: N06 KEY: A  
 Identify the most basic unit of living things. (Life Science)  
 Difficulty: 503

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	690	57.2	20.2	4.2	17.1	1.3	57.2	0.0	0.0	1.3	56.8	57.6
Austria	380	52.9	19.8	6.8	17.7	2.8	52.9	0.0	0.4	2.4	51.6	54.4
Belgium (Fl)	336	47.0	27.7	6.4	18.3	0.6	47.0	0.0	0.0	0.6	41.7	52.3
Belgium (Fr)	288	33.6	31.1	3.0	28.1	4.2	33.6	0.6	0.3	3.2	36.5	30.2
Bulgaria	175	84.7	4.6	5.8	3.3	1.5	84.7	0.7	0.0	0.9	84.0	85.7
Canada	1015	63.1	15.9	1.4	17.5	2.1	63.1	0.1	0.0	2.0	56.9	68.1
Colombia	340	66.6	7.0	8.2	15.9	2.4	66.6	0.2	0.3	1.8	66.6	66.5
Cyprus	388	64.9	8.6	7.3	15.8	3.4	64.9	0.0	0.0	3.4	67.8	62.0
Czech Republic	400	85.2	4.5	1.6	6.2	2.5	85.2	1.6	0.0	0.9	83.8	86.5
Denmark	279	47.6	9.0	28.2	11.2	4.1	47.6	0.3	0.4	3.3	45.4	51.3
England	230	50.5	26.7	4.6	17.8	0.4	50.5	0.0	0.0	0.4	53.2	48.2
France	384	27.1	38.4	3.7	25.3	5.6	27.1	1.4	0.5	3.7	22.6	32.1
Germany	367	58.9	17.5	3.2	13.1	7.3	58.9	2.6	0.6	4.0	58.7	59.5
Greece	505	55.9	12.1	4.0	24.8	3.2	55.9	0.6	0.0	2.7	57.7	54.3
Hong Kong	432	78.9	5.8	6.7	8.1	0.5	78.9	0.0	0.0	0.5	75.9	81.3
Hungary	376	64.5	12.1	6.3	11.1	6.0	64.5	0.0	0.3	5.7	68.2	61.2
Iceland	241	61.6	13.5	5.5	15.9	3.5	61.6	0.4	0.0	3.1	56.4	66.1
Iran, Islamic Rep.	476	78.7	13.2	4.8	3.1	0.2	78.7	0.0	0.0	0.2	72.4	83.3
Ireland	398	55.5	16.8	3.6	22.4	1.7	55.5	0.0	0.0	1.7	49.2	62.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	63.7	17.6	8.0	10.3	0.5	63.7	0.1	0.0	0.3	61.2	66.1
Korea	362	77.5	9.0	5.2	8.2	0.0	77.5	0.0	0.0	0.0	74.5	79.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	312	39.0	21.5	11.0	21.9	6.6	39.0	0.0	0.3	6.2	41.1	36.9
Lithuania	309	43.6	18.7	5.4	20.2	12.1	43.6	0.9	0.2	11.1	48.1	39.5
Netherlands	248	82.4	2.1	7.5	6.9	1.1	82.4	0.0	0.2	0.9	84.0	80.7
New Zealand	387	36.8	33.3	7.4	21.9	0.6	36.8	0.0	0.2	0.4	31.7	41.9
Norway	304	57.2	20.4	5.9	14.3	2.2	57.2	0.0	0.0	2.2	56.2	58.3
Philippines	740	32.4	20.9	11.4	34.1	1.2	32.4	0.0	0.0	1.2	33.9	31.0
Portugal	424	45.2	18.3	3.7	30.3	2.6	45.2	0.0	0.0	2.6	45.5	44.8
Romania	469	59.3	7.1	4.5	18.4	10.7	59.3	6.8	0.4	3.5	55.7	62.6
Russian Federation	510	64.8	3.7	3.2	23.4	4.9	64.8	0.4	0.0	4.5	65.4	64.2
Scotland	352	50.8	27.2	4.9	15.4	1.7	50.8	0.0	0.3	1.3	51.6	50.1
Singapore	445	76.5	7.5	4.4	10.8	0.8	76.5	0.0	0.0	0.8	74.4	78.6
Slovak Republic	444	89.8	4.1	1.7	3.8	0.6	89.8	0.0	0.0	0.6	90.3	89.3
Slovenia	365	64.8	15.1	4.7	10.3	5.0	64.8	3.1	0.0	2.0	64.3	65.3
South Africa	647	31.5	24.6	10.6	30.1	3.3	31.5	0.5	0.7	2.1	32.2	31.4
Spain	457	48.0	16.2	4.0	29.4	2.5	48.0	0.0	0.0	2.5	44.2	51.2
Sweden	359	63.9	7.6	20.0	6.7	1.8	63.9	0.6	0.0	1.2	64.9	62.7
Switzerland	515	34.6	37.8	3.3	20.7	3.6	34.6	1.5	0.0	2.1	23.4	45.8
Thailand	725	68.2	13.3	4.4	13.5	0.5	68.2	0.0	0.0	0.5	65.0	72.2
United States	473	71.2	6.9	3.2	17.2	1.4	71.2	0.0	0.0	1.4	72.0	70.5
INTERNATIONAL AVG	.	58.4	15.9	6.2	16.5	2.9	58.4	0.6	0.1	2.2	57.1	59.6

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: N07  
 Explain oxygen fuel requirements of burning candle. (Chemistry)  
 Difficulty: 291

COUNTRY	N	NOT REACHED												OMIT	1.GIRL % Right	2.BOY % Right	
		10	11	12	19	70	71	72	76	79	90	99	V1				
Australia	690	56.0	10.1	1.7	20.9	0.2	0.6	0.0	0.5	7.0	0.4	2.5	88.8	0.0	2.5	86.7	90.8
Austria	380	79.2	14.9	1.0	0.0	0.2	0.0	0.2	0.0	0.7	1.2	2.6	95.1	0.4	2.1	94.7	95.0
Belgium (Fl)	336	81.8	9.1	1.0	0.3	0.6	1.2	0.0	0.3	4.7	0.4	0.7	92.1	0.0	0.7	89.8	94.5
Belgium (Fr)	288	0.0	0.0	0.0	87.0	0.0	0.0	0.0	0.0	9.2	0.0	3.8	87.0	0.3	3.4	87.7	85.9
Bulgaria	175	88.1	3.4	0.0	0.5	0.0	0.0	0.0	0.0	0.4	0.0	7.6	92.0	0.0	7.6	94.1	89.2
Canada	1015	75.8	12.2	2.7	0.2	0.4	0.3	0.3	0.2	4.0	0.1	3.9	90.9	0.0	3.9	90.2	91.4
Colombia	340	35.5	6.6	10.8	0.8	4.0	11.9	1.8	0.5	15.7	0.2	12.1	53.7	0.3	11.8	52.9	55.7
Cyprus	388	71.4	2.2	3.0	1.4	0.0	1.5	0.0	0.0	11.1	0.0	9.5	77.9	0.0	9.5	79.0	76.9
Czech Republic	400	79.1	16.8	1.0	0.1	0.0	0.4	0.0	0.0	0.6	0.0	1.9	97.1	0.0	1.9	95.6	98.4
Denmark	279	82.1	6.4	0.7	0.7	0.6	0.3	0.0	0.0	2.0	0.5	6.7	89.9	0.4	6.3	89.9	91.0
England	230	76.0	14.3	1.6	0.0	0.9	2.1	0.0	0.4	2.7	0.4	1.6	91.9	0.0	1.6	88.8	94.6
France	384	60.3	19.9	4.3	0.2	0.4	2.2	0.3	0.5	6.8	0.3	4.7	84.8	0.5	4.2	81.9	88.1
Germany	366	80.0	8.6	3.1	0.0	0.5	0.5	0.0	0.0	1.7	0.0	5.4	91.7	0.6	4.8	90.2	93.2
Greece	505	66.9	10.8	0.8	0.2	0.3	0.9	0.0	0.2	5.5	1.2	13.1	78.7	0.0	13.1	76.4	81.5
Hong Kong	432	57.2	32.6	0.3	0.2	0.2	0.4	0.0	0.0	2.5	0.0	6.5	90.3	0.0	6.5	88.2	92.0
Hungary	376	86.8	6.4	0.0	0.8	0.6	0.0	0.0	0.0	2.1	0.0	3.4	94.0	0.3	3.1	92.7	95.1
Iceland	241	80.4	8.9	4.9	0.0	0.8	0.7	0.0	0.0	2.5	0.5	1.3	94.2	0.0	1.3	89.5	98.3
Iran, Islamic Rep.	476	84.0	7.8	0.6	0.2	0.0	0.3	0.0	0.0	3.3	0.0	3.8	92.6	0.0	3.8	89.9	94.6
Ireland	398	75.6	12.3	1.0	0.0	0.7	2.1	0.2	0.0	5.6	0.5	2.1	88.8	0.0	2.1	86.8	90.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	80.2	4.7	0.0	0.9	0.0	5.6	0.0	0.0	5.5	0.0	3.2	85.7	0.0	3.2	85.8	85.7
Korea	362	72.2	14.6	0.6	2.9	0.3	2.7	0.0	0.6	4.0	0.0	2.1	90.4	0.0	2.1	88.1	92.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	313	54.1	21.5	4.8	0.4	0.9	3.1	0.6	0.5	5.3	0.5	8.3	80.7	0.3	7.9	79.0	82.4
Lithuania	309	58.8	25.9	0.0	0.0	0.0	0.2	0.0	0.0	3.1	1.2	10.8	84.7	0.2	10.6	83.6	85.7
Netherlands	248	86.7	6.5	0.0	0.0	0.0	1.2	0.4	0.0	3.5	0.4	1.2	93.3	0.2	1.0	92.3	94.3
New Zealand	387	61.8	26.0	0.3	1.0	2.0	1.7	0.0	0.0	4.5	0.6	2.1	89.0	0.2	1.9	87.3	90.8
Norway	304	78.7	10.4	3.6	0.1	0.0	0.0	0.0	0.2	5.0	0.6	1.4	92.7	0.0	1.4	95.7	89.8
Philippines	740	14.7	14.6	4.5	1.4	4.5	4.2	0.1	8.0	25.8	4.2	18.1	35.1	0.0	18.1	34.6	35.8
Portugal	424	63.7	8.6	3.1	1.3	1.8	3.7	0.4	0.6	10.0	1.4	5.4	76.7	0.0	5.4	71.6	82.3
Romania	470	72.0	10.4	1.3	0.3	0.2	0.0	0.0	0.2	6.5	0.0	9.1	84.0	0.4	8.7	79.8	88.0
Russian Federation	510	76.9	13.0	1.2	0.9	0.0	2.0	0.0	0.0	1.5	0.2	4.4	92.0	0.0	4.4	87.9	96.4
Scotland	352	56.3	19.9	2.6	0.3	1.2	1.5	0.0	0.0	10.9	0.6	6.7	79.1	0.3	6.4	79.8	78.4
Singapore	445	86.7	5.6	0.0	0.0	0.3	3.4	0.0	0.0	3.0	0.1	1.0	92.3	0.0	1.0	92.0	92.5
Slovak Republic	444	79.6	16.2	0.0	0.0	0.0	0.2	0.0	0.0	0.8	0.2	3.0	95.8	0.0	3.0	92.9	99.2
Slovenia	365	90.2	5.0	0.3	1.5	0.0	0.0	0.0	0.0	1.2	0.6	1.3	97.0	0.0	1.3	96.3	97.7
South Africa	647	28.2	6.4	0.8	0.0	0.8	1.5	0.7	3.2	23.6	2.9	31.9	35.4	0.7	31.2	36.9	33.5
Spain	457	68.5	12.4	4.4	0.0	1.0	2.3	0.3	0.2	5.7	0.0	5.3	85.3	0.0	5.3	80.7	89.3
Sweden	359	83.9	7.0	3.2	0.3	0.3	0.5	0.0	0.0	3.6	0.0	1.2	94.4	0.0	1.2	93.0	95.6
Switzerland	515	71.6	19.3	4.0	0.3	1.1	0.3	0.0	0.0	1.2	0.3	1.7	95.3	0.0	1.7	92.6	97.9
Thailand	725	40.9	35.9	0.6	0.5	0.8	3.3	1.6	0.1	11.1	1.0	4.2	78.0	0.0	4.2	73.1	84.3
United States	473	76.7	6.7	2.1	0.6	0.4	1.9	0.7	0.5	6.5	0.2	3.9	86.0	0.0	3.9	85.5	86.6
INTERNATIONAL AVG	.	68.0	12.4	1.9	3.2	0.6	1.6	0.2	0.4	5.8	0.5	5.5	85.4	0.1	5.3	83.8	86.9

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent



Item: N08 KEY: D  
 Relate lever arm lengths to balanced weights. (Physics)  
 Difficulty: 458

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	690	1.2	5.2	21.7	70.2	1.7	70.2	0.0	0.0	1.7	69.5	70.9
Austria	380	1.4	3.4	15.7	78.1	1.4	78.1	0.0	0.4	1.0	72.7	85.6
Belgium (Fl)	336	1.8	2.8	16.1	78.9	0.3	78.9	0.0	0.0	0.3	79.1	78.8
Belgium (Fr)	288	2.3	7.8	16.8	71.7	1.3	71.7	0.0	0.3	1.0	65.6	77.3
Bulgaria	175	3.0	2.9	17.4	74.8	1.9	74.8	0.0	0.0	1.9	74.9	74.7
Canada	1015	2.3	5.6	17.3	73.1	1.8	73.1	0.0	0.0	1.8	71.4	74.3
Colombia	340	12.9	12.0	15.7	51.9	7.5	51.9	1.0	0.3	6.2	48.8	54.8
Cyprus	388	10.3	8.7	23.0	53.2	4.9	53.2	0.0	0.0	4.9	54.6	51.8
Czech Republic	408	2.4	1.1	15.1	78.3	3.1	78.3	1.3	0.0	1.8	77.9	78.6
Denmark	279	1.5	2.5	17.9	75.7	2.5	75.7	0.5	0.4	1.5	74.7	76.3
England	230	5.0	3.4	27.2	63.9	0.5	63.9	0.0	0.0	0.5	61.1	66.3
France	384	3.0	12.0	17.1	66.5	1.5	66.5	0.2	0.5	0.8	65.1	67.8
Germany	365	1.6	2.2	17.1	75.9	3.2	75.9	0.4	0.6	2.1	71.6	80.4
Greece	505	12.3	11.3	23.6	51.3	1.5	51.3	0.0	0.0	1.5	44.5	58.7
Hong Kong	433	2.0	4.5	24.7	67.8	1.1	67.8	0.0	0.0	1.1	68.4	67.1
Hungary	376	7.1	2.8	28.2	60.2	1.7	60.2	0.0	0.3	1.4	56.7	63.4
Iceland	241	1.3	6.9	13.4	74.1	4.3	74.1	0.7	0.0	3.6	76.0	72.4
Iran, Islamic Rep.	476	13.6	11.4	25.7	46.4	2.9	46.4	0.1	0.0	2.8	40.3	50.8
Ireland	398	3.4	6.8	29.2	60.2	0.4	60.2	0.0	0.0	0.4	58.5	61.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	0.4	1.8	15.5	82.2	0.1	82.2	0.0	0.0	0.1	85.1	79.5
Korea	362	0.5	0.9	17.5	81.1	0.0	81.1	0.0	0.0	0.0	80.4	81.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	312	8.3	4.3	17.4	66.0	3.9	66.0	0.0	0.3	3.6	55.6	76.6
Lithuania	309	4.0	4.7	16.6	70.0	4.7	70.0	0.0	0.2	4.5	63.4	76.1
Netherlands	248	2.2	4.2	25.2	66.7	1.7	66.7	0.0	0.2	1.5	65.5	68.0
New Zealand	387	5.1	5.7	17.1	70.8	1.3	70.8	0.0	0.2	1.1	67.1	74.6
Norway	304	1.5	2.4	8.8	85.3	2.0	85.3	0.0	0.0	2.0	86.4	84.3
Philippines	740	20.7	8.1	21.4	48.8	1.1	48.8	0.0	0.0	1.1	42.4	55.8
Portugal	424	6.2	10.2	20.2	61.1	2.4	61.1	0.0	0.0	2.4	53.8	69.1
Romania	469	7.9	5.9	13.4	65.6	7.2	65.6	1.0	0.4	5.9	54.7	76.5
Russian Federation	509	2.2	5.1	7.9	84.1	0.7	84.1	0.2	0.0	0.5	82.0	86.4
Scotland	352	7.2	6.8	23.1	59.8	3.0	59.8	0.0	0.3	2.7	56.7	62.7
Singapore	445	1.2	4.7	16.9	76.4	0.8	76.4	0.0	0.0	0.8	74.8	77.9
Slovak Republic	445	3.4	2.4	30.2	62.1	1.9	62.1	1.1	0.0	0.8	58.2	66.5
Slovenia	365	2.1	2.1	23.8	71.0	0.9	71.0	0.0	0.0	0.9	63.9	78.5
South Africa	647	20.6	16.6	18.7	28.5	15.6	28.5	0.3	0.7	14.7	22.9	35.7
Spain	457	6.0	6.4	23.3	60.9	3.4	60.9	0.0	0.0	3.4	56.7	64.6
Sweden	359	1.4	5.2	12.6	80.8	0.0	80.8	0.0	0.0	0.0	78.3	83.1
Switzerland	515	0.8	2.5	17.8	78.5	0.3	78.5	0.0	0.0	0.3	76.7	80.2
Thailand	725	4.7	4.6	17.2	73.3	0.2	73.3	0.0	0.0	0.2	70.8	76.6
United States	473	4.8	7.3	21.6	63.2	3.1	63.2	0.0	0.0	3.1	61.8	64.6
INTERNATIONAL AVG	.	5.0	5.6	19.2	67.7	2.4	67.7	0.2	0.1	2.1	64.7	70.8

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: N09 KEY: D  
 Choose materials that can be separated using a funnel lined with filter paper. (Chemistry)  
 Difficulty: 605

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	690	24.2	8.3	4.8	55.2	6.2	1.3	55.2	0.0	0.0	1.3	56.2	54.2
Austria	380	13.0	11.1	10.0	48.0	10.2	7.7	48.0	0.0	0.4	7.3	45.2	50.7
Belgium (Fl)	336	18.1	15.4	5.7	48.1	7.5	5.2	48.1	0.3	0.0	4.9	50.1	46.1
Belgium (Fr)	288	13.6	13.4	16.0	36.3	7.4	13.3	36.3	0.0	0.3	13.0	33.7	39.7
Bulgaria	175	16.3	10.9	6.4	54.0	7.5	4.9	54.0	2.1	0.0	2.8	55.7	51.7
Canada	1015	18.0	15.9	14.4	39.6	9.0	3.1	39.6	1.2	0.0	1.9	38.2	41.8
Colombia	340	12.4	15.9	20.4	21.5	22.1	7.7	21.5	0.7	0.3	6.7	16.4	28.3
Cyprus	388	12.8	18.5	16.3	38.8	8.6	5.0	38.8	2.2	0.0	2.8	40.1	37.4
Czech Republic	408	6.3	10.1	1.1	72.6	7.3	2.5	72.6	1.7	0.0	0.8	74.1	71.2
Denmark	279	12.9	16.9	13.7	23.5	14.5	18.6	23.5	1.9	0.4	16.2	18.8	28.3
England	230	15.6	7.8	5.2	57.9	9.0	4.5	57.9	0.0	0.0	4.5	57.7	58.0
France	384	11.7	20.6	14.4	27.5	12.3	13.6	27.5	1.4	0.5	11.7	21.3	33.1
Germany	365	10.8	8.8	7.9	48.6	9.3	14.7	48.6	3.8	0.6	10.2	48.4	49.2
Greece	505	14.9	24.0	20.2	23.2	9.9	7.8	23.2	0.8	0.0	7.0	21.3	25.1
Hong Kong	433	7.6	4.7	7.9	60.5	19.0	0.3	60.5	0.0	0.0	0.3	62.6	58.6
Hungary	376	7.0	6.7	8.8	60.9	7.2	9.4	60.9	0.0	0.3	9.1	59.1	62.5
Iceland	241	20.6	18.9	11.5	33.0	10.6	5.4	33.0	0.6	0.0	4.7	27.6	37.7
Iran, Islamic Rep.	.	.	.	.	.	.	.	.	.	.	.	.	.
Ireland	398	12.8	11.1	8.3	61.1	5.0	1.5	61.1	0.2	0.3	1.0	61.1	61.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	10.4	17.7	4.1	64.2	2.5	1.1	64.2	1.0	0.0	0.1	65.0	63.4
Korea	362	1.8	5.1	6.8	80.1	6.1	0.0	80.1	0.0	0.0	0.0	77.9	81.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	313	7.4	11.0	22.3	27.3	18.0	14.0	27.3	0.0	0.7	13.3	28.6	25.9
Lithuania	309	4.5	9.3	10.3	27.1	14.7	34.2	27.1	0.6	0.6	33.0	25.0	29.0
Netherlands	248	10.6	13.8	8.4	52.6	8.8	5.8	52.6	0.0	0.2	5.6	56.6	48.4
New Zealand	387	19.9	18.9	12.3	33.8	12.0	3.0	33.8	1.1	0.2	1.6	37.8	29.8
Norway	304	19.9	20.0	15.9	27.8	8.4	8.0	27.8	0.0	0.0	8.0	30.0	25.5
Philippines	740	20.8	36.8	18.4	16.5	7.2	0.4	16.5	0.0	0.0	0.4	15.4	17.7
Portugal	424	16.7	16.1	15.1	26.2	18.5	7.4	26.2	0.0	0.0	7.4	19.7	33.3
Romania	468	19.1	13.5	9.5	33.6	11.7	12.6	33.6	7.8	0.4	4.4	31.2	36.1
Russian Federation	509	8.8	6.4	10.6	43.8	12.7	17.7	43.8	0.7	0.0	17.0	41.4	46.5
Scotland	352	18.9	9.7	7.8	51.8	7.1	4.7	51.8	1.6	0.6	2.5	51.6	52.0
Singapore	445	31.4	10.4	3.7	44.1	10.3	0.2	44.1	0.0	0.0	0.2	42.3	45.9
Slovak Republic	445	6.8	13.4	5.1	62.9	6.9	5.0	62.9	2.7	0.0	2.3	61.3	64.6
Slovenia	365	8.2	12.2	5.7	55.8	11.2	6.8	55.8	3.9	0.0	2.9	52.4	59.5
South Africa	647	20.9	15.5	16.4	32.0	12.8	2.5	32.0	0.0	0.7	1.9	33.2	30.3
Spain	457	15.6	13.8	14.9	39.9	9.1	6.7	39.9	0.0	0.0	6.7	39.8	39.9
Sweden	359	17.6	25.0	11.1	33.6	9.5	3.2	33.6	1.1	0.0	2.1	31.0	35.7
Switzerland	515	11.7	18.6	12.1	37.4	10.6	9.6	37.4	4.4	0.0	5.2	33.7	41.0
Thailand	725	12.9	22.7	6.9	45.8	11.2	0.5	45.8	0.0	0.0	0.5	43.7	48.5
United States	473	16.7	17.3	12.8	45.3	6.2	1.7	45.3	0.2	0.0	1.4	43.6	47.0
INTERNATIONAL AVG	.	14.1	14.5	10.9	43.4	10.2	7.0	43.4	1.1	0.2	5.7	42.3	44.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: N10  
 Determine effect of tipping container on water surface. (Physics)  
 Difficulty: 569

COUNTRY	N	10	70	71	72	73	79	90	99	V1	NOT	1.GIRL	2.BOY
											REACH		
Australia	690	47.8	2.9	21.8	10.2	11.2	1.6	0.0	4.5	47.8	0.0	4.5	59.7
Austria	380	46.2	1.4	13.8	3.9	5.9	26.0	0.3	2.4	46.2	0.4	2.0	55.9
Belgium (Fl)	336	59.0	0.6	18.3	3.1	12.5	3.1	1.2	2.1	59.0	0.0	2.1	67.9
Belgium (Fr)	288	57.8	0.0	0.0	0.0	0.0	36.4	0.0	5.8	57.8	0.3	5.4	64.6
Bulgaria	175	59.0	0.4	18.0	4.0	3.7	3.8	0.7	10.4	59.0	0.0	10.4	60.9
Canada	1015	50.9	0.3	26.0	4.1	13.1	2.3	0.3	3.1	50.9	0.0	3.1	61.3
Colombia	340	18.8	0.0	35.1	8.9	19.2	7.2	0.0	10.7	18.8	0.7	10.0	22.7
Cyprus	388	32.8	0.0	34.5	6.8	9.5	3.2	0.9	12.3	32.8	0.0	12.3	35.8
Czech Republic	411	76.6	0.4	14.2	2.7	4.7	0.7	0.0	0.7	76.6	0.0	0.7	85.4
Denmark	279	54.2	0.7	15.5	7.5	11.7	3.1	0.5	6.9	54.2	0.9	6.0	59.0
England	230	53.5	0.9	32.6	5.8	5.8	0.0	1.0	0.5	53.5	0.0	0.5	61.2
France	384	51.0	0.3	24.5	6.9	9.8	2.7	0.0	4.7	51.0	0.9	3.8	62.0
Germany	364	61.3	0.2	23.8	3.2	5.0	1.0	0.3	5.2	61.3	1.5	3.7	73.7
Greece	505	38.9	0.9	27.2	3.8	11.4	2.9	1.4	13.6	38.9	0.0	13.6	45.4
Hong Kong	431	62.2	0.6	19.4	2.4	5.4	1.6	0.2	8.1	62.2	0.0	8.1	72.1
Hungary	376	54.4	0.3	27.8	5.8	7.9	2.4	0.0	1.3	54.4	0.6	0.7	63.7
Iceland	241	50.7	0.4	22.9	5.5	13.7	1.7	2.6	2.5	50.7	0.0	2.5	63.3
Iran, Islamic Rep.	476	14.5	4.6	27.2	1.5	12.4	20.4	0.7	18.9	14.5	0.0	18.9	13.9
Ireland	398	44.0	0.5	31.8	8.8	11.0	1.9	0.3	1.7	44.0	0.3	1.5	60.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	53.7	0.8	25.2	1.1	16.3	1.0	0.1	1.8	53.7	0.0	1.8	64.9
Korea	362	42.6	30.1	14.3	0.0	0.0	6.6	0.0	6.4	42.6	0.0	6.4	49.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	313	43.4	3.4	19.4	7.7	16.3	2.2	0.5	7.1	43.4	0.7	6.3	56.7
Lithuania	309	37.7	5.9	22.2	6.3	15.1	4.8	0.3	7.6	37.7	0.6	7.0	47.0
Netherlands	248	47.2	0.0	28.4	3.5	16.5	2.1	1.3	1.0	47.2	0.2	0.8	56.4
New Zealand	387	47.5	3.7	28.8	1.5	13.4	1.9	0.0	3.3	47.5	0.2	3.1	57.8
Norway	304	50.7	0.5	23.1	6.3	13.3	2.4	0.5	3.2	50.7	0.0	3.2	59.2
Philippines	740	21.9	2.7	21.8	1.9	3.8	18.6	3.0	26.4	21.9	0.0	26.4	25.6
Portugal	424	28.6	4.0	36.2	7.2	15.6	4.9	1.7	1.8	28.6	0.0	1.8	41.0
Romania	470	40.6	0.6	26.9	3.9	10.9	3.5	0.0	13.5	40.6	0.4	13.1	51.1
Russian Federation	509	49.2	8.3	21.9	3.5	10.3	0.7	0.8	5.3	49.2	0.0	5.3	58.2
Scotland	352	41.9	0.2	35.5	5.1	7.9	3.7	1.3	4.5	41.9	0.6	3.9	46.2
Singapore	445	65.4	0.0	20.9	3.8	6.9	2.0	0.1	0.9	65.4	0.0	0.9	73.9
Slovak Republic	442	58.4	4.5	20.2	1.8	11.0	1.7	0.3	2.2	58.4	0.0	2.2	72.5
Slovenia	365	52.1	0.8	30.4	3.2	9.5	1.6	0.2	2.2	52.1	0.0	2.2	66.0
South Africa	647	15.3	0.5	14.2	3.2	11.2	14.4	0.6	40.7	15.3	0.7	40.1	16.8
Spain	457	39.9	0.2	33.1	3.8	16.3	3.1	0.3	3.3	39.9	0.0	3.3	47.8
Sweden	359	55.0	0.3	21.1	4.2	13.9	3.5	0.6	1.5	55.0	0.0	1.5	63.2
Switzerland	515	60.0	0.3	24.6	2.4	8.4	0.6	0.7	3.0	60.0	0.5	2.6	69.7
Thailand	725	37.6	1.1	32.4	4.4	14.8	4.5	0.5	4.7	37.6	0.0	4.7	43.5
United States	473	38.5	2.5	30.5	6.4	12.7	4.7	0.3	4.4	38.5	0.0	4.4	47.9
INTERNATIONAL AVG	.	46.5	2.1	24.1	4.4	10.5	5.3	0.6	6.5	46.5	0.2	6.3	55.1

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: O10  
 Identify polarity of ends of cut magnet. (Physics)  
 Difficulty: 564

COUNTRY	N	10	19	70	71	72	79	90	99	V1	NOT	1.GIRL	2.BOY	
											REACH			OMIT
Australia	694	59.3	0.0	24.0	1.3	0.1	2.2	1.4	11.8	59.3	0.0	11.8	58.6	60.1
Austria	365	70.3	0.0	17.0	0.2	0.0	2.4	1.1	9.0	70.3	0.0	9.0	72.1	68.7
Belgium (Fl)	332	64.6	0.0	22.4	0.3	1.0	3.1	0.4	8.3	64.6	0.0	8.3	64.7	64.5
Belgium (Fr)	280	0.0	29.5	0.0	0.0	0.0	28.4	0.0	42.2	29.5	0.3	41.8	28.8	30.9
Bulgaria	301	58.6	0.3	8.5	0.0	0.0	0.9	1.7	29.9	58.9	2.4	27.5	55.3	62.9
Canada	1042	46.2	0.0	27.5	1.8	2.0	2.2	1.1	19.1	46.2	0.3	18.8	46.1	46.5
Colombia	327	13.5	0.0	14.0	0.6	1.4	11.7	2.8	55.9	13.5	3.5	52.4	11.7	15.2
Cyprus	304	25.3	0.0	14.2	0.5	0.0	0.7	2.4	56.9	25.3	0.0	56.9	27.7	22.8
Czech Republic	412	75.3	0.0	14.2	1.0	0.2	2.0	1.3	6.1	75.3	0.0	6.1	71.1	79.5
Denmark	149	35.1	0.4	12.8	0.4	2.7	9.0	1.4	38.2	35.5	0.7	37.4	32.6	38.9
England	223	56.8	0.0	24.3	1.8	1.4	3.5	1.6	10.5	56.8	0.0	10.5	61.8	52.5
France	374	45.4	0.0	33.2	0.6	0.0	4.1	1.5	15.2	45.4	0.3	15.0	42.1	49.1
Germany	366	61.3	0.0	12.1	0.8	0.4	1.8	1.7	21.9	61.3	1.1	20.8	58.4	63.4
Greece	491	46.3	0.2	27.9	0.8	1.5	4.7	1.1	17.5	46.5	0.0	17.5	45.2	47.5
Hong Kong	423	52.1	0.0	10.2	0.0	0.0	0.2	0.9	36.6	52.1	0.3	36.3	46.8	56.2
Hungary	383	32.9	0.0	5.3	0.9	0.3	9.1	13.7	37.8	32.9	1.6	36.2	28.0	37.7
Iceland	246	49.7	0.0	22.3	3.7	1.4	5.9	0.2	16.8	49.7	0.4	16.4	48.8	50.5
Iran, Islamic Rep.	459	39.5	0.0	6.7	0.0	0.0	18.4	2.5	32.9	39.5	0.5	32.4	34.9	42.8
Ireland	402	47.5	0.0	26.2	3.0	1.8	5.9	2.1	13.5	47.5	0.2	13.3	48.3	46.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	640	66.1	0.0	25.6	0.2	0.1	2.5	0.0	5.5	66.1	0.0	5.5	60.5	71.7
Korea	353	67.8	0.0	15.3	0.3	0.2	3.5	0.0	12.9	67.8	0.0	12.9	69.7	66.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	22.2	0.6	9.4	0.6	0.3	9.9	6.1	50.9	22.8	0.6	50.3	21.8	24.0
Lithuania	321	34.9	0.5	25.9	0.0	0.0	2.7	0.0	35.9	35.5	1.6	34.2	24.1	46.6
Netherlands	265	66.4	0.0	14.9	1.1	0.7	3.2	2.7	11.0	66.4	0.4	10.6	61.7	71.4
New Zealand	398	44.9	0.0	27.2	2.7	2.7	4.6	0.6	17.2	44.9	0.0	17.2	44.3	45.4
Norway	312	45.8	0.0	21.4	3.4	2.2	5.8	1.4	20.1	45.8	0.7	19.4	47.4	44.1
Philippines	733	33.0	0.0	14.6	1.0	1.1	6.3	2.0	42.0	33.0	0.0	42.0	32.8	33.3
Portugal	410	28.0	0.0	25.5	1.0	0.9	2.1	1.7	40.8	28.0	0.0	40.8	25.3	31.1
Romania	468	46.5	0.0	9.4	0.8	0.2	4.6	0.6	37.9	46.5	0.7	37.1	51.1	40.3
Russian Federation	498	47.0	0.2	21.7	0.3	0.4	2.6	2.4	25.5	47.1	0.9	24.6	38.5	54.8
Scotland	358	43.2	0.0	34.0	1.6	3.0	2.8	0.2	15.2	43.2	0.0	15.2	39.8	46.9
Singapore	442	80.3	0.0	13.7	0.5	0.0	1.2	0.2	3.9	80.3	0.2	3.8	80.7	80.0
Slovak Republic	450	67.6	1.0	9.7	0.2	0.2	5.6	1.3	14.4	68.6	0.0	14.4	63.9	73.5
Slovenia	354	38.7	0.0	32.8	0.2	0.0	2.0	1.5	24.9	38.7	0.0	24.9	35.9	41.7
South Africa	639	11.5	0.8	7.1	0.4	0.3	18.7	0.5	60.7	12.3	1.0	59.7	12.1	12.7
Spain	468	62.6	0.6	7.4	0.4	0.2	2.8	0.4	25.7	63.2	0.3	25.5	62.1	64.2
Sweden	333	50.5	0.0	23.5	0.0	1.2	3.4	1.2	20.2	50.5	0.3	19.9	47.2	54.0
Switzerland	516	55.5	0.0	19.6	1.0	1.3	4.6	0.2	17.8	55.5	0.0	17.7	58.0	53.2
Thailand	707	50.5	0.4	14.5	2.0	0.8	13.1	0.0	18.6	50.9	0.0	18.6	48.1	55.0
United States	483	52.0	0.0	19.4	1.7	0.7	3.1	0.1	23.0	52.0	0.0	23.0	50.7	53.2
INTERNATIONAL AVG	.	47.4	0.9	17.9	0.9	0.8	5.5	1.5	25.1	48.2	0.5	24.6	46.5	50.0

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: O11 KEY: C  
 Identify which change in elemental form is due to a chemical change. (Chemistry)  
 Difficulty: 670

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	694	4.0	51.2	33.9	9.4	1.6	33.9	0.0	0.0	1.6	34.7	32.9
Austria	365	3.1	45.8	42.3	5.0	3.7	42.3	0.0	0.4	3.3	40.5	45.0
Belgium (Fl)	332	1.9	52.4	36.1	7.1	2.5	36.1	0.0	0.0	2.5	29.1	43.0
Belgium (Fr)	280	3.8	41.2	32.0	9.1	13.9	32.0	0.0	0.3	13.6	24.2	40.4
Bulgaria	301	4.1	35.1	45.4	6.3	9.1	45.4	2.3	2.4	4.4	42.8	48.2
Canada	1042	4.6	46.1	36.4	11.4	1.5	36.4	0.2	0.3	1.0	38.9	34.1
Colombia	327	14.8	35.9	19.4	19.9	10.0	19.4	0.5	3.7	5.8	24.2	14.7
Cyprus	.	.	.	.	.	.	.	.	.	.	.	.
Czech Republic	412	4.7	45.2	35.1	10.3	4.7	35.1	2.5	0.0	2.2	30.1	40.0
Denmark	149	9.1	32.0	25.8	14.4	18.6	25.8	0.9	0.7	17.0	25.1	26.2
England	223	0.7	65.6	23.7	9.5	0.5	23.7	0.0	0.0	0.5	16.0	30.5
France	374	2.9	41.2	35.6	12.8	7.4	35.6	1.4	0.3	5.7	32.8	37.6
Germany	366	1.5	35.4	41.2	8.4	13.5	41.2	3.1	1.1	9.3	35.1	46.1
Greece	491	7.8	45.4	25.2	15.4	6.2	25.2	0.7	0.1	5.3	25.3	25.2
Hong Kong	425	4.8	31.6	47.4	15.3	0.9	47.4	0.0	0.3	0.7	43.9	50.2
Hungary	383	6.1	49.1	27.4	9.1	8.4	27.4	0.0	1.6	6.7	22.3	32.3
Iceland	246	6.4	49.5	22.8	18.1	3.2	22.8	0.4	0.4	2.5	15.1	30.4
Iran, Islamic Rep.	459	6.6	29.6	41.4	19.4	2.9	41.4	0.1	0.5	2.3	48.3	36.5
Ireland	402	2.7	61.6	24.6	10.1	1.0	24.6	0.0	0.2	0.8	16.3	34.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	640	4.3	35.8	48.4	10.4	1.1	48.4	0.0	0.0	1.1	48.5	48.3
Korea	353	4.4	41.5	45.2	8.9	0.0	45.2	0.0	0.0	0.0	42.4	47.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	4.7	30.9	33.0	11.0	20.4	33.0	0.0	0.6	19.9	34.6	31.0
Lithuania	321	6.4	26.6	12.1	15.1	39.8	12.1	0.0	1.6	38.2	7.2	17.0
Netherlands	265	3.5	40.0	40.5	8.1	8.0	40.5	0.0	0.4	7.7	39.5	41.8
New Zealand	398	3.6	54.6	29.4	10.9	1.4	29.4	0.0	0.0	1.4	28.5	30.1
Norway	312	6.1	35.1	40.3	13.8	4.7	40.3	0.0	0.7	4.0	38.6	42.1
Philippines	733	15.0	38.2	26.3	19.8	0.7	26.3	0.0	0.0	0.7	26.4	26.3
Portugal	410	5.6	38.3	30.4	18.3	7.4	30.4	0.0	0.0	7.4	28.4	32.6
Romania	467	7.4	39.1	30.7	12.9	10.0	30.7	3.8	0.7	5.4	31.4	29.8
Russian Federation	498	7.5	29.4	26.7	14.0	22.3	26.7	1.0	0.9	20.5	20.7	32.1
Scotland	358	3.0	62.4	23.4	9.3	1.9	23.4	0.0	0.0	1.9	19.5	27.7
Singapore	442	3.7	47.5	40.8	7.0	0.9	40.8	0.0	0.2	0.8	36.3	45.5
Slovak Republic	450	2.4	54.7	29.4	7.1	6.4	29.4	1.7	0.0	4.7	20.5	38.9
Slovenia	354	2.9	58.3	25.0	9.0	4.9	25.0	1.5	0.0	3.4	17.4	33.3
South Africa	639	10.1	36.1	27.3	22.6	3.9	27.3	0.2	1.1	2.6	27.1	27.7
Spain	468	8.8	46.2	29.5	11.8	3.7	29.5	0.0	0.5	3.2	21.9	36.5
Sweden	333	6.2	48.6	22.9	19.7	2.7	22.9	0.2	0.3	2.1	22.0	23.9
Switzerland	516	2.1	31.5	44.8	14.6	7.0	44.8	0.3	0.0	6.7	38.8	50.3
Thailand	707	3.1	49.3	36.3	9.8	1.5	36.3	0.0	0.0	1.5	33.3	41.3
United States	483	2.7	49.6	38.8	7.5	1.4	38.8	0.0	0.0	1.4	38.8	38.8
INTERNATIONAL AVG	.	5.2	43.3	32.7	12.1	6.7	32.7	0.5	0.5	5.6	29.9	35.6

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: O12 KEY: A  
 Know relative amounts of components in air. (Earth Science)  
 Difficulty: 750

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	694	16.1	57.3	19.7	6.4	0.5	16.1	0.0	0.0	0.5	15.8	16.5
Austria	365	13.3	67.7	12.0	4.8	2.2	13.3	0.0	0.4	1.9	10.5	16.7
Belgium (Fl)	332	9.8	68.6	15.2	4.8	1.5	9.8	0.4	0.0	1.2	6.4	13.1
Belgium (Fr)	280	21.7	55.1	17.5	1.4	4.3	21.7	0.6	0.3	3.3	14.6	28.8
Bulgaria	301	30.6	55.2	8.3	2.9	3.0	30.6	0.0	2.4	0.6	28.7	32.6
Canada	1042	9.3	60.0	26.7	3.3	0.8	9.3	0.0	0.3	0.4	6.5	12.1
Colombia	.	.	.	.	.	.	.	.	.	.	.	.
Cyprus	304	23.3	44.6	29.3	1.7	1.1	23.3	0.9	0.0	0.2	20.6	26.3
Czech Republic	412	54.7	35.4	8.3	1.0	0.6	54.7	0.1	0.0	0.4	53.9	55.5
Denmark	149	10.3	51.6	25.9	5.2	7.0	10.3	0.4	0.7	5.9	9.0	11.9
England	223	21.1	50.5	24.0	2.1	2.4	21.1	0.0	0.0	2.4	17.8	24.0
France	374	11.2	69.0	16.8	0.9	2.1	11.2	1.6	0.3	0.2	7.2	14.5
Germany	366	23.0	56.8	14.3	1.6	4.2	23.0	2.1	1.1	1.1	22.6	24.0
Greece	491	26.5	49.9	20.0	1.5	2.0	26.5	0.4	0.1	1.5	21.2	30.6
Hong Kong	425	21.0	47.1	26.4	4.2	1.2	21.0	0.2	0.3	0.7	17.5	23.7
Hungary	383	42.4	32.9	13.8	7.8	3.2	42.4	0.0	1.6	1.6	40.4	44.3
Iceland	246	3.4	75.1	16.8	2.9	1.8	3.4	0.6	0.4	0.8	4.0	2.8
Iran, Islamic Rep.	459	7.3	73.5	12.8	5.7	0.7	7.3	0.0	0.5	0.2	7.8	7.0
Ireland	402	16.0	59.8	18.3	4.8	1.1	16.0	0.7	0.2	0.2	13.1	19.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	640	56.6	28.8	12.4	2.0	0.2	56.6	0.0	0.0	0.2	53.2	60.0
Korea	353	58.7	26.6	12.6	2.1	0.0	58.7	0.0	0.0	0.0	56.2	60.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	13.4	64.8	16.8	1.7	3.3	13.4	0.0	0.6	2.7	14.5	12.1
Lithuania	321	9.8	73.0	10.4	1.3	5.5	9.8	0.0	2.1	3.4	9.1	10.4
Netherlands	265	14.8	59.0	20.1	5.2	0.9	14.8	0.0	0.4	0.5	12.0	17.9
New Zealand	398	5.7	64.5	22.9	5.7	1.3	5.7	0.6	0.0	0.7	6.5	5.0
Norway	312	3.6	77.0	12.4	3.4	3.6	3.6	0.0	0.7	2.9	2.8	4.4
Philippines	733	21.0	40.8	26.2	11.7	0.3	21.0	0.0	0.0	0.3	20.5	21.6
Portugal	410	17.3	62.7	14.4	3.6	2.0	17.3	0.0	0.0	2.0	17.5	17.2
Romania	465	26.9	52.9	7.9	5.6	6.7	26.9	5.1	0.7	0.9	28.9	24.3
Russian Federation	498	21.0	65.1	8.5	2.8	2.6	21.0	0.2	0.9	1.5	19.0	22.8
Scotland	358	11.8	67.6	14.2	6.1	0.2	11.8	0.0	0.2	0.0	10.5	13.2
Singapore	442	71.8	11.9	9.4	6.1	0.8	71.8	0.0	0.2	0.6	64.9	78.9
Slovak Republic	450	50.6	33.4	10.9	1.0	4.1	50.6	2.8	0.0	1.3	48.2	53.2
Slovenia	354	51.2	33.8	13.3	0.7	1.0	51.2	0.7	0.0	0.3	47.1	55.8
South Africa	639	15.6	52.7	17.9	10.4	3.5	15.6	0.3	1.3	1.9	16.4	14.7
Spain	468	8.8	70.5	13.7	5.3	1.7	8.8	0.0	0.5	1.2	9.9	7.7
Sweden	333	9.9	68.2	17.0	3.5	1.4	9.9	0.5	0.3	0.6	9.5	10.5
Switzerland	516	9.3	71.6	11.9	6.2	1.0	9.3	0.7	0.0	0.2	9.1	9.5
Thailand	707	18.6	55.2	22.6	2.7	1.0	18.6	0.0	0.0	1.0	18.4	19.4
United States	483	19.7	55.3	19.0	5.3	0.6	19.7	0.0	0.0	0.6	16.5	22.8
INTERNATIONAL AVG	.	22.5	55.0	16.4	4.0	2.1	22.5	0.5	0.4	1.2	20.7	24.2

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: O13 KEY: C  
 Relate circular motion to centripetal force. (Physics)  
 Difficulty: 534

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	694	11.0	11.4	59.4	16.0	2.2	59.4	0.0	0.0	2.2	54.4	65.2
Austria	365	6.2	11.9	62.4	15.8	3.8	62.4	0.0	0.4	3.4	62.3	66.1
Belgium (Fl)	332	9.2	11.9	67.1	11.8	0.0	67.1	0.0	0.0	0.0	58.4	75.6
Belgium (Fr)	280	8.7	13.1	56.7	16.2	5.3	56.7	0.0	0.3	5.0	51.7	61.8
Bulgaria	301	4.0	9.1	74.8	6.0	6.1	74.8	0.0	2.4	3.7	72.7	77.1
Canada	1042	10.0	12.5	59.4	16.6	1.6	59.4	0.0	0.3	1.2	50.4	67.7
Colombia	327	10.1	17.6	25.6	30.5	16.1	25.6	1.4	3.7	11.1	20.9	30.6
Cyprus	304	11.5	17.5	36.9	24.3	9.8	36.9	0.5	0.0	9.2	33.3	40.9
Czech Republic	412	8.4	15.3	66.1	9.1	1.1	66.1	0.2	0.0	0.9	58.4	73.7
Denmark	149	10.0	14.8	55.1	11.5	8.7	55.1	0.0	0.7	7.9	48.3	61.9
England	223	5.8	11.8	61.7	17.6	3.1	61.7	0.0	0.0	3.1	56.6	66.3
France	374	9.1	14.6	59.5	14.6	2.2	59.5	1.2	0.3	0.8	49.0	68.9
Germany	366	8.2	8.3	63.8	13.6	6.1	63.8	0.8	1.1	4.2	59.8	68.3
Greece	491	8.1	16.5	49.2	20.4	5.8	49.2	1.5	0.1	4.2	45.8	51.9
Hong Kong	425	14.3	13.2	55.5	16.5	0.5	55.5	0.0	0.3	0.2	50.6	59.3
Hungary	383	7.7	7.7	63.0	18.6	3.0	63.0	0.0	1.6	1.4	55.0	70.8
Iceland	246	5.1	10.5	64.0	11.7	8.7	64.0	0.0	0.4	8.3	59.6	68.3
Iran, Islamic Rep.	459	14.6	13.8	37.2	31.6	2.8	37.2	0.6	0.5	1.7	28.4	43.5
Ireland	402	9.3	19.1	53.4	16.5	1.9	53.4	0.5	0.2	1.2	42.0	66.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	640	10.3	16.7	63.7	9.2	0.2	63.7	0.0	0.0	0.2	57.6	69.6
Korea	353	16.1	11.3	45.5	27.1	0.0	45.5	0.0	0.0	0.0	35.4	52.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	9.9	9.5	47.8	23.0	9.8	47.8	0.0	0.6	9.2	48.5	47.0
Lithuania	321	9.4	12.6	44.8	17.5	15.7	44.8	0.2	2.1	13.3	45.8	43.7
Netherlands	265	13.0	6.6	67.0	12.6	0.9	67.0	0.0	0.4	0.5	62.9	71.4
New Zealand	398	10.4	9.1	58.9	18.2	3.4	58.9	0.5	0.0	2.9	57.8	59.8
Norway	312	8.6	15.1	61.4	11.2	3.7	61.4	0.0	0.7	3.0	56.9	66.3
Philippines	733	16.1	15.3	20.7	47.5	0.4	20.7	0.0	0.0	0.4	18.4	23.2
Portugal	410	9.0	14.1	49.0	25.4	2.5	49.0	0.0	0.0	2.5	43.3	55.4
Romania	469	7.6	20.9	38.4	24.6	8.4	38.4	2.2	0.7	5.5	38.2	38.7
Russian Federation	498	7.2	14.6	52.6	16.0	9.6	52.6	0.2	1.0	8.3	47.2	57.5
Scotland	358	9.8	14.0	49.1	25.4	1.6	49.1	0.0	0.2	1.4	41.9	56.9
Singapore	442	10.1	15.0	63.3	10.9	0.7	63.3	0.0	0.2	0.5	55.8	71.0
Slovak Republic	453	7.8	19.1	60.5	10.6	1.9	60.5	0.5	0.0	1.4	56.6	64.7
Slovenia	354	10.7	14.8	64.6	6.8	3.1	64.6	0.0	0.0	3.1	59.5	70.1
South Africa	639	6.8	16.8	21.0	41.3	14.1	21.0	0.8	1.3	12.1	21.1	21.0
Spain	468	8.6	13.3	56.5	18.7	2.9	56.5	0.0	0.5	2.5	51.0	61.6
Sweden	333	9.5	22.7	52.3	14.2	1.3	52.3	0.6	0.3	0.3	48.8	55.3
Switzerland	516	8.6	13.0	58.2	17.6	2.6	58.2	0.3	0.0	2.3	50.6	65.4
Thailand	707	10.5	12.5	40.9	34.7	1.4	40.9	0.3	0.0	1.0	38.2	45.2
United States	483	11.5	12.5	55.6	19.0	1.3	55.6	0.2	0.0	1.1	51.8	59.4
INTERNATIONAL AVG	.	9.6	13.8	53.6	18.8	4.4	53.6	0.3	0.5	3.5	48.6	58.5

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: O14  
 Explain relative size of Sun and Moon as viewed from Earth. (Earth Science)  
 Difficulty: 560

COUNTRY	N	NOT REACHED													1. GIRL % Right	2. BOY % Right	
		10	19	70	71	72	73	74	76	79	90	99	V1	ED			OMIT
Australia	694	61.3	0.4	2.9	1.7	14.3	0.5	0.4	0.3	11.3	1.0	5.9	61.8	0.1	5.8	58.8	65.2
Austria	365	58.9	0.0	4.0	1.3	16.9	1.1	0.5	0.4	8.5	2.0	6.4	58.9	0.8	5.6	51.5	68.4
Belgium (Fl)	332	62.4	0.5	4.1	2.0	8.3	0.9	3.6	0.6	11.1	1.3	5.3	62.9	0.0	5.3	55.4	70.4
Belgium (Fr)	280	0.0	43.5	0.0	0.0	0.0	0.0	21.3	0.0	20.9	0.0	14.2	43.5	0.7	13.5	39.2	47.4
Bulgaria	301	45.1	0.0	0.8	0.4	12.5	0.0	0.0	0.0	13.4	1.5	26.3	45.1	2.4	23.9	42.8	47.6
Canada	1042	61.6	0.6	3.4	1.9	12.2	1.1	2.4	0.1	11.9	1.1	3.7	62.2	0.3	3.3	57.4	66.9
Colombia	327	20.0	0.0	7.9	0.5	18.9	2.1	2.2	3.2	22.0	0.3	23.0	20.0	4.2	18.7	9.7	28.9
Cyprus	304	33.1	0.0	5.2	1.7	22.1	1.7	2.0	1.2	10.6	0.0	22.4	33.1	0.0	22.4	30.5	36.1
Czech Republic	412	61.6	1.4	3.7	0.8	12.0	0.1	0.4	0.5	10.0	2.5	7.1	63.0	0.2	6.9	54.4	71.4
Denmark	149	62.4	0.0	1.9	3.5	11.7	0.0	0.0	0.4	4.3	0.8	14.9	62.4	0.7	14.2	54.7	70.9
England	223	54.8	1.6	6.7	1.6	18.6	0.4	3.4	0.0	7.7	0.9	4.3	56.4	0.0	4.3	46.4	65.2
France	374	40.3	2.3	4.1	1.8	21.2	0.4	2.4	0.3	11.3	2.3	13.7	42.6	0.3	13.4	36.2	49.3
Germany	365	61.0	0.3	1.5	0.6	10.6	0.3	1.8	1.4	4.9	1.6	15.9	61.3	1.3	14.7	55.0	66.8
Greece	491	34.6	0.9	4.2	0.8	24.8	1.9	1.4	1.9	11.3	3.6	14.8	35.5	0.1	14.6	32.4	37.9
Hong Kong	425	62.4	0.0	5.6	0.9	9.6	0.3	0.0	0.0	10.1	0.8	10.4	62.4	0.3	10.1	54.0	68.8
Hungary	383	35.8	0.0	1.4	0.2	20.2	0.0	0.0	0.0	27.7	2.0	12.7	35.8	1.6	11.0	32.7	38.7
Iceland	246	60.1	0.2	1.8	2.5	13.8	0.6	1.8	0.8	6.2	4.1	8.0	60.3	0.4	7.6	57.8	62.9
Iran, Islamic Rep.	459	35.9	0.7	3.7	4.4	25.7	3.8	1.9	2.4	12.9	0.1	8.6	36.6	1.1	7.5	29.5	41.6
Ireland	402	49.2	1.3	5.5	1.1	25.7	0.0	0.5	0.3	10.4	1.6	4.5	50.6	0.2	4.2	42.5	60.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	640	64.9	0.0	1.8	1.2	11.3	0.2	5.5	0.5	8.2	0.5	5.9	64.9	0.0	5.9	68.2	61.8
Korea	353	61.3	0.8	4.3	1.7	11.6	0.6	1.4	0.2	12.8	0.0	5.3	62.0	0.0	5.3	48.5	71.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	314	50.8	1.3	1.9	1.9	6.2	4.0	1.8	1.5	14.9	1.7	14.0	52.1	2.3	11.7	46.7	58.4
Lithuania	321	42.7	1.8	2.0	3.0	4.0	1.9	0.3	0.9	15.6	0.4	27.5	44.5	4.8	22.7	40.2	48.7
Netherlands	265	64.9	0.0	4.6	4.2	17.0	0.8	0.0	0.0	4.7	1.6	2.2	64.9	0.4	1.8	59.5	70.7
New Zealand	398	56.3	0.2	3.2	2.6	19.8	0.3	1.5	0.9	9.8	0.1	5.2	56.5	0.2	5.0	50.2	61.8
Norway	312	69.7	0.0	3.9	0.6	6.2	1.2	0.5	0.4	7.7	3.9	5.8	69.7	0.7	5.1	65.9	73.8
Philippines	733	31.0	1.0	5.6	3.4	4.8	0.7	1.8	4.9	24.6	4.4	18.0	31.9	0.0	18.0	32.8	31.1
Portugal	410	34.6	0.6	4.5	1.4	22.4	0.6	1.7	0.7	19.2	1.4	13.0	35.2	0.4	12.6	34.1	36.5
Romania	470	35.0	2.1	3.4	1.6	13.2	2.7	2.7	2.6	19.1	1.3	16.3	37.1	1.3	15.0	34.6	40.5
Russian Federation	498	51.6	1.7	1.3	0.1	12.2	2.4	1.5	0.8	8.8	1.7	17.7	53.3	1.7	16.0	43.4	62.0
Scotland	358	52.6	1.2	0.8	1.2	20.9	0.3	2.1	0.8	14.6	0.9	4.5	53.8	0.2	4.3	48.6	59.5
Singapore	442	53.7	0.0	5.7	1.5	19.1	0.3	2.2	0.1	12.0	0.3	5.1	53.7	0.2	4.9	41.0	66.8
Slovak Republic	453	57.3	3.0	4.7	1.3	5.5	1.0	3.3	0.4	9.9	0.3	13.3	60.3	0.0	13.3	53.4	67.6
Slovenia	354	53.1	3.0	3.8	0.9	13.2	2.4	2.6	0.4	8.2	0.3	12.1	56.2	0.2	11.8	49.5	63.5
South Africa	639	7.3	1.1	5.9	0.1	6.1	0.4	1.1	8.3	32.0	1.1	36.7	8.3	1.9	34.7	8.7	8.0
Spain	468	53.7	0.0	3.7	0.9	14.9	0.4	2.4	2.6	11.4	0.2	9.9	53.7	0.5	9.4	51.2	56.0
Sweden	333	77.3	0.9	3.1	1.2	5.4	0.8	0.7	0.0	6.5	0.9	3.2	78.2	0.3	2.9	71.5	84.5
Switzerland	516	65.0	1.1	3.3	0.2	8.7	1.3	0.7	0.0	10.6	2.3	6.8	66.2	0.0	6.8	60.4	71.5
Thailand	707	45.2	0.4	5.1	0.0	19.0	1.0	3.8	0.3	19.4	0.6	5.2	45.6	0.1	5.1	43.7	48.9
United States	483	51.9	0.8	4.0	2.2	23.4	0.0	0.3	0.5	12.5	1.0	3.3	52.7	0.0	3.3	45.7	59.6
INTERNATIONAL AVG	.	49.5	1.9	3.6	1.5	14.1	1.0	2.1	1.0	12.7	1.3	11.3	51.4	0.8	10.6	46.0	56.7

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent



Item: O15 KEY: B  
 Relate the loss of an electron from a neutral atom to ion formation. (Chemistry)  
 Difficulty: 656

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	694	29.9	12.6	15.0	40.6	1.9	12.6	0.0	0.1	1.8	9.3	16.6
Austria	365	4.5	64.2	3.1	25.8	2.5	64.2	0.0	0.8	1.7	64.0	64.1
Belgium (Fl)	332	24.9	22.7	10.7	37.9	3.8	22.7	0.0	0.0	3.8	17.5	27.8
Belgium (Fr)	280	14.0	19.1	10.6	34.1	22.2	19.1	0.0	0.9	21.3	12.5	25.5
Bulgaria	301	6.1	64.2	7.3	15.7	6.7	64.2	0.0	3.7	3.0	65.4	62.9
Canada	1042	24.3	19.5	12.0	43.2	1.0	19.5	0.0	0.5	0.5	19.1	19.3
Colombia	327	17.2	31.1	5.4	38.5	7.9	31.1	0.5	4.7	2.7	29.6	32.4
Cyprus	304	17.4	19.1	23.2	36.4	3.9	19.1	0.2	0.4	3.3	15.7	22.1
Czech Republic	412	3.8	71.8	1.5	20.5	2.4	71.8	0.6	0.3	1.4	69.4	74.3
Denmark	149	23.7	8.5	16.8	38.5	12.6	8.5	0.0	1.1	11.4	4.7	12.3
England	223	26.8	13.7	18.9	39.8	0.8	13.7	0.0	0.0	0.8	14.8	12.7
France	374	20.3	18.5	17.6	33.6	10.0	18.5	0.0	0.3	9.7	17.8	19.1
Germany	366	17.0	24.1	5.9	36.1	16.9	24.1	1.2	1.3	14.4	21.9	26.8
Greece	491	13.4	15.0	9.9	56.4	5.3	15.0	0.3	0.8	4.2	13.1	16.5
Hong Kong	425	9.5	55.6	10.3	24.4	0.3	55.6	0.0	0.3	0.0	54.2	56.7
Hungary	383	6.4	67.0	2.8	20.5	3.3	67.0	0.0	1.9	1.4	69.3	64.7
Iceland	246	19.6	8.3	37.2	32.3	2.6	8.3	0.3	0.4	1.9	2.5	14.0
Iran, Islamic Rep.	459	31.4	18.6	19.9	27.6	2.4	18.6	0.0	1.1	1.3	18.9	18.5
Ireland	402	27.1	20.1	14.4	36.8	1.5	20.1	0.3	0.2	1.0	14.9	26.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	640	9.1	27.2	14.4	47.9	1.3	27.2	0.0	0.1	1.2	24.2	30.1
Korea	353	15.0	19.9	9.5	55.3	0.3	19.9	0.0	0.0	0.3	13.7	24.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	309	28.1	14.7	20.2	17.3	19.7	14.7	0.0	2.3	17.4	7.5	23.1
Lithuania	321	30.4	7.7	13.9	14.7	33.3	7.7	0.0	5.8	27.5	7.1	8.2
Netherlands	265	41.3	12.4	11.0	29.5	5.8	12.4	0.0	0.4	5.5	10.8	14.4
New Zealand	398	26.6	11.8	19.8	40.2	1.6	11.8	0.4	0.2	1.0	7.5	15.5
Norway	312	39.2	8.7	20.3	30.5	1.3	8.7	0.0	0.7	0.6	8.6	8.8
Philippines	733	29.5	18.3	13.6	38.1	0.5	18.3	0.0	0.1	0.4	16.0	20.7
Portugal	410	30.8	19.5	21.8	20.6	7.3	19.5	0.0	0.4	6.9	14.6	24.9
Romania	470	5.6	59.8	6.2	24.3	4.0	59.8	1.4	1.3	1.3	56.7	64.0
Russian Federation	498	17.7	36.2	9.0	18.2	18.9	36.2	0.0	2.3	16.6	35.1	37.2
Scotland	358	31.3	14.7	15.7	38.0	0.2	14.7	0.0	0.2	0.0	13.5	16.1
Singapore	442	23.7	22.6	15.5	36.3	1.8	22.6	0.0	0.2	1.6	17.5	27.9
Slovak Republic	453	5.1	69.1	1.4	22.8	1.7	69.1	0.0	0.3	1.3	66.1	72.3
Slovenia	353	2.0	80.7	2.1	14.2	1.1	80.7	0.0	0.2	0.8	81.8	79.4
South Africa	639	46.4	14.4	20.5	15.4	3.2	14.4	0.0	2.3	0.9	14.7	14.0
Spain	468	9.6	50.7	4.7	31.7	3.3	50.7	0.0	0.5	2.7	49.1	52.2
Sweden	333	28.0	10.3	11.3	49.3	1.2	10.3	0.0	0.3	0.8	8.3	12.6
Switzerland	516	30.2	14.5	19.8	30.0	5.5	14.5	0.1	0.1	5.3	12.2	16.6
Thailand	707	19.0	9.7	11.5	58.5	1.3	9.7	0.1	0.1	1.1	6.1	14.3
United States	483	17.1	29.6	12.0	38.8	2.5	29.6	0.0	0.0	2.5	20.5	38.6
INTERNATIONAL AVG	.	20.6	28.2	12.9	32.8	5.6	28.2	0.1	0.9	4.5	25.7	30.7

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: 016  
 Give reason for thirst on a hot day. (Life Science)  
 Difficulty: 538

COUNTRY	N	10	11	12	13	19	70	71	72	76	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY
															REACH		% Right	% Right
														ED				
Australia	694	4.7	34.6	1.6	14.2	0.9	6.7	23.3	2.2	1.2	6.8	0.8	3.0	56.0	0.1	2.9	54.7	57.4
Austria	365	2.5	21.0	0.4	37.5	1.1	3.0	15.4	2.3	1.1	9.5	2.0	4.4	62.4	0.8	3.7	62.8	61.4
Belgium (Fl)	332	2.3	41.5	0.8	8.0	9.7	1.0	18.6	4.0	2.5	7.3	0.4	3.8	62.4	0.3	3.5	56.7	68.0
Belgium (Fr)	280	0.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0	0.0	35.5	0.0	11.5	53.0	1.6	9.9	55.9	49.2
Bulgaria	301	9.1	11.3	3.5	24.1	3.3	4.5	5.1	2.9	1.8	8.9	2.1	23.3	51.4	3.7	19.6	54.8	47.7
Canada	1042	3.9	28.0	2.0	19.5	3.1	5.2	21.9	2.6	0.9	6.7	2.0	4.2	56.5	0.5	3.7	54.6	58.2
Colombia	327	0.8	14.5	0.2	11.9	0.8	4.5	11.2	5.9	11.3	18.3	0.5	20.0	28.2	5.0	15.1	25.7	30.3
Cyprus	304	1.9	25.9	0.4	15.8	0.0	9.2	7.9	5.2	5.0	7.5	0.3	20.9	44.0	0.4	20.5	45.8	42.4
Czech Republic	412	2.0	36.2	0.4	26.6	1.7	3.4	15.5	2.4	1.5	4.6	1.9	3.7	66.9	0.5	3.2	58.6	75.2
Denmark	149	3.8	29.1	1.2	16.5	5.5	2.7	3.1	2.8	2.7	22.0	0.8	9.7	56.2	2.7	7.0	56.3	56.9
England	223	2.7	30.5	0.7	15.8	5.5	5.7	20.7	5.6	2.1	5.1	1.7	3.9	55.2	0.0	3.9	51.2	58.8
France	374	1.7	11.8	0.4	15.7	0.7	4.9	38.0	3.2	4.0	7.5	0.2	11.9	30.3	0.3	11.6	27.7	31.9
Germany	365	2.2	37.6	1.2	34.2	0.9	1.3	6.5	3.5	0.5	2.6	0.4	9.1	76.2	1.5	7.5	72.5	79.3
Greece	491	2.8	18.4	0.7	18.1	0.8	6.0	8.2	4.7	10.6	14.8	2.5	12.3	40.9	0.8	11.5	38.9	42.5
Hong Kong	425	1.6	21.8	1.3	49.8	1.2	2.1	4.9	1.5	1.1	7.3	0.5	6.8	75.7	0.3	6.6	72.4	78.2
Hungary	383	53.6	0.0	1.0	4.6	0.0	0.6	10.4	0.2	0.3	18.3	1.3	9.7	59.2	1.9	7.8	59.4	59.0
Iceland	246	3.1	13.6	1.0	17.2	3.4	15.3	20.4	1.6	6.9	6.8	1.7	9.1	38.2	0.4	8.7	37.5	38.8
Iran, Islamic Rep.	459	0.2	9.7	0.4	36.4	5.0	1.7	8.1	4.9	19.2	9.2	0.0	5.2	51.7	1.1	4.1	42.6	58.2
Ireland	402	2.0	24.8	0.3	11.2	0.3	11.4	29.7	7.8	2.4	3.6	1.8	4.9	38.4	0.4	4.5	35.3	42.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	640	3.8	41.9	1.4	8.6	25.6	0.5	4.6	0.4	6.4	3.9	0.0	2.9	81.3	0.1	2.8	79.7	82.9
Korea	353	14.7	22.6	1.7	27.0	2.5	4.7	6.5	1.5	5.5	8.9	0.0	4.5	68.5	0.0	4.5	63.4	71.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	4.4	5.0	0.3	13.6	3.3	5.9	9.4	1.1	12.3	14.7	3.1	26.9	26.6	2.6	24.3	23.0	30.8
Lithuania	321	0.8	5.0	1.7	10.5	0.6	5.2	15.8	0.9	7.1	14.9	0.6	36.9	18.6	6.1	30.8	16.4	20.7
Netherlands	265	1.3	22.1	0.4	38.6	2.4	0.3	20.0	2.4	4.5	4.8	1.4	1.8	64.8	0.4	1.5	62.4	67.4
New Zealand	398	2.4	19.1	1.3	24.0	3.8	10.9	23.6	3.4	2.3	4.7	0.0	4.4	50.6	0.2	4.3	52.6	49.0
Norway	312	2.3	36.1	0.3	24.8	0.0	8.5	11.5	2.5	0.3	9.6	0.0	4.2	63.5	0.7	3.4	56.1	71.5
Philippines	733	13.9	3.1	0.8	6.8	1.6	3.4	5.5	1.2	11.2	25.2	3.4	23.7	26.3	0.1	23.6	29.1	23.5
Portugal	410	2.7	24.7	0.8	27.6	2.0	4.1	9.5	6.1	6.2	11.1	0.7	4.4	57.8	0.4	4.0	56.1	59.7
Romania	470	5.4	8.5	0.6	23.7	4.6	5.9	7.4	1.8	4.0	15.8	1.0	21.2	42.9	1.5	19.7	42.5	43.5
Russian Federation	498	2.1	12.2	0.5	26.5	1.1	6.9	10.9	0.4	7.6	6.6	2.3	23.0	42.4	2.5	20.4	34.0	49.8
Scotland	358	3.1	25.5	1.9	14.6	4.3	5.8	29.8	1.3	2.3	6.5	0.9	4.1	49.4	0.2	3.8	46.3	52.8
Singapore	442	3.8	41.3	1.7	38.9	0.0	1.0	4.2	1.2	0.9	5.4	0.2	1.4	85.7	0.2	1.2	85.0	86.4
Slovak Republic	453	3.6	21.8	1.1	31.6	1.3	1.8	13.3	5.4	3.5	4.0	2.0	10.5	59.5	0.3	10.1	56.9	62.3
Slovenia	354	10.0	26.0	2.4	22.4	4.0	5.2	5.5	3.9	5.8	7.7	0.0	7.1	64.7	0.2	6.9	58.9	71.1
South Africa	639	1.3	3.7	0.8	4.9	1.4	5.5	5.0	1.8	16.1	28.6	2.8	28.1	12.2	2.3	25.7	11.8	12.8
Spain	468	1.9	30.5	0.5	16.4	3.8	5.0	12.2	4.6	7.6	6.7	0.6	10.4	53.1	0.7	9.7	49.0	56.8
Sweden	333	3.5	36.1	1.3	21.1	1.3	3.4	13.3	2.8	3.6	7.6	2.1	3.8	63.4	0.3	3.5	61.0	65.5
Switzerland	516	1.1	39.0	0.4	16.7	1.2	2.1	15.4	3.3	2.7	11.0	1.1	5.8	58.5	0.1	5.7	53.1	63.6
Thailand	707	2.0	54.1	1.4	16.5	4.3	3.5	5.8	6.4	0.1	2.5	0.0	3.4	78.3	0.1	3.3	83.2	71.9
United States	483	5.0	28.0	1.5	18.9	1.1	9.3	18.9	6.1	0.7	6.3	0.1	4.0	54.4	0.0	4.0	54.9	54.0
INTERNATIONAL AVG	.	4.7	22.9	1.0	20.3	4.2	4.7	12.9	3.0	4.6	10.2	1.1	10.3	53.1	1.0	9.2	51.0	55.1

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: O17  
 Describe how disease may be transmitted. (Life Science)  
 Difficulty: 556

COUNTRY	N	10	11	12	19	70	79	90	99	V1	NOT	1.GIRL	2.BOY	
											REACH			ED
Australia	694	9.8	20.8	17.5	1.2	15.2	13.6	5.0	16.9	49.3	1.6	15.3	53.4	44.4
Austria	365	21.2	42.0	0.0	0.0	27.7	2.7	2.5	3.9	63.2	1.8	2.1	65.9	60.2
Belgium (Fl)	332	12.4	6.6	19.1	3.7	45.9	11.1	0.0	1.3	41.8	0.3	0.9	41.6	41.9
Belgium (Fr)	280	0.0	0.0	0.0	40.3	0.0	50.1	0.0	9.6	40.3	2.4	7.2	42.6	37.5
Bulgaria	301	14.1	2.3	16.5	2.5	41.8	5.7	0.9	16.2	35.5	10.3	5.9	37.6	33.2
Canada	1042	7.4	20.0	19.5	3.1	18.6	10.6	8.0	12.8	50.0	1.9	10.9	55.5	44.5
Colombia	327	0.4	21.2	17.1	4.4	24.2	16.4	0.0	16.3	43.1	10.5	5.8	46.0	41.0
Cyprus	304	3.2	1.8	5.3	0.8	35.5	38.3	0.3	14.7	11.1	6.0	8.7	9.8	12.7
Czech Republic	412	13.9	12.6	36.4	2.0	25.5	6.8	0.5	2.2	64.9	1.2	0.9	68.6	61.3
Denmark	149	12.7	24.2	31.4	1.2	5.1	10.7	0.0	14.6	69.5	3.9	10.7	77.1	62.4
England	223	24.4	16.6	22.2	0.0	26.4	5.0	0.5	5.0	63.2	0.5	4.6	64.9	61.6
France	374	12.4	7.9	23.8	1.1	44.0	2.7	0.3	7.8	45.1	2.2	5.7	51.1	39.2
Germany	364	11.8	9.0	25.7	1.2	35.9	5.1	0.4	10.8	47.7	3.9	6.9	53.0	41.3
Greece	491	13.1	20.6	36.6	0.6	17.5	5.3	1.5	4.8	70.9	2.3	2.5	73.7	68.7
Hong Kong	424	14.6	2.5	4.8	0.4	59.7	6.3	0.2	11.3	22.3	4.9	6.4	23.6	21.4
Hungary	382	10.6	8.9	35.9	0.2	22.9	14.4	1.3	5.9	55.6	2.3	3.7	52.5	58.6
Iceland	246	13.3	24.8	36.1	1.4	9.4	7.8	0.2	7.0	75.6	0.8	6.2	73.1	78.1
Iran, Islamic Rep.	459	8.0	4.0	4.3	9.7	5.3	20.7	0.7	47.4	26.0	1.8	45.6	24.0	27.3
Ireland	402	13.3	12.8	27.4	0.6	39.2	3.5	0.5	2.8	54.0	0.6	2.1	53.7	54.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	640	19.2	1.6	19.8	44.1	3.0	6.7	0.3	5.2	84.7	0.9	4.4	86.6	82.9
Korea	353	12.8	12.1	25.1	10.3	20.0	15.1	0.0	4.6	60.3	0.4	4.2	56.4	63.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	317	11.7	9.2	11.5	2.2	43.7	8.9	0.7	12.1	34.6	6.4	5.7	36.8	32.0
Lithuania	320	5.4	14.6	30.8	2.8	25.8	1.5	0.0	19.1	53.6	12.5	6.6	61.7	45.6
Netherlands	265	10.4	5.5	27.8	7.8	37.3	9.2	0.5	1.6	51.4	0.4	1.2	52.5	50.6
New Zealand	398	7.7	15.7	27.6	0.6	13.4	17.2	0.9	17.0	51.6	0.9	16.1	54.3	49.3
Norway	312	16.9	42.1	25.5	0.5	6.2	5.9	0.0	2.8	85.0	0.9	1.9	86.1	83.9
Philippines	733	14.9	2.6	5.9	2.0	10.8	26.9	2.7	34.2	25.4	13.0	21.3	28.0	22.7
Portugal	410	5.8	1.6	3.4	0.9	69.7	14.6	0.4	3.6	11.6	0.9	2.7	12.5	10.6
Romania	470	6.1	14.3	25.6	3.7	9.7	21.3	2.4	16.9	49.7	5.5	11.4	56.1	41.1
Russian Federation	498	5.8	15.5	33.9	3.6	30.0	1.0	0.7	9.5	58.8	6.2	3.3	53.9	63.1
Scotland	358	4.2	7.3	43.9	0.5	33.1	6.4	0.3	4.4	55.8	1.3	3.0	58.7	52.8
Singapore	442	21.6	9.2	21.8	2.0	36.2	5.6	0.3	3.4	54.6	0.9	2.4	58.9	50.2
Slovak Republic	453	15.0	16.9	18.7	3.8	26.3	13.3	0.7	5.3	54.4	1.8	3.5	54.0	54.7
Slovenia	354	13.1	6.0	26.1	4.4	36.7	7.5	2.3	4.0	49.5	1.0	3.0	54.0	44.5
South Africa	639	2.2	3.4	8.5	1.0	12.3	30.9	3.3	38.3	15.2	17.8	20.5	18.2	11.7
Spain	468	7.1	9.7	18.4	1.8	50.7	6.0	0.3	6.0	37.0	2.2	3.8	35.2	38.6
Sweden	333	15.5	7.4	23.3	16.0	18.1	11.6	4.0	4.2	62.1	0.6	3.7	69.5	54.3
Switzerland	516	10.8	4.3	24.4	1.2	45.5	8.6	0.3	4.8	40.7	0.5	4.4	45.8	35.9
Thailand	707	12.7	5.4	13.1	5.6	30.3	27.7	0.6	4.5	36.8	0.6	3.9	36.6	37.0
United States	483	4.0	22.3	31.8	2.0	6.8	16.4	4.5	12.1	60.2	0.4	11.7	68.9	51.7
INTERNATIONAL AVG	.	11.0	12.1	21.2	4.8	26.6	12.5	1.2	10.6	49.1	3.4	7.3	51.3	46.6

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: P01 KEY: B  
 Extrapolate distance/time graph to determine distance travelled at fixed speed. (Physics)  
 Difficulty: 358

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	687	3.4	87.3	5.4	3.4	0.4	87.3	0.0	0.0	0.4	89.6	85.0
Austria	373	6.6	77.9	7.1	7.5	0.9	77.9	0.0	0.4	0.5	75.0	79.2
Belgium (Fl)	342	4.7	92.9	0.9	1.2	0.3	92.9	0.0	0.0	0.3	93.3	92.5
Belgium (Fr)	280	6.3	85.8	2.9	4.0	1.0	85.8	0.0	0.8	0.2	82.2	90.9
Bulgaria	240	8.9	75.1	6.2	5.0	4.7	75.1	0.0	2.4	2.3	76.7	73.2
Canada	1030	3.7	88.0	4.9	3.2	0.3	88.0	0.0	0.0	0.3	89.3	86.6
Colombia	333	9.0	45.9	20.7	18.2	6.2	45.9	0.0	2.6	3.6	44.7	46.6
Cyprus	337	16.2	53.1	17.5	13.0	0.4	53.1	0.0	0.4	0.0	54.3	51.9
Czech Republic	417	6.6	87.9	3.0	2.3	0.2	87.9	0.0	0.0	0.2	86.4	89.5
Denmark	269	5.3	80.4	8.5	4.5	1.4	80.4	0.0	0.0	1.4	77.2	84.4
England	221	6.8	87.4	3.4	2.4	0.0	87.4	0.0	0.0	0.0	84.5	89.6
France	371	4.4	89.7	3.0	2.0	0.9	89.7	0.0	0.0	0.9	89.3	91.0
Germany	356	7.2	78.9	7.1	5.3	1.6	78.9	0.8	0.3	0.5	76.7	81.9
Greece	484	13.4	59.6	12.9	12.2	1.8	59.6	0.0	0.0	1.8	57.8	61.5
Hong Kong	428	4.6	85.9	6.1	2.3	1.1	85.9	0.2	0.0	0.9	83.4	87.9
Hungary	377	5.2	81.5	3.5	8.0	1.8	81.5	0.0	0.2	1.7	77.7	85.1
Iceland	237	5.6	79.4	5.3	8.6	1.2	79.4	0.0	0.0	1.2	76.7	83.1
Iran, Islamic Rep.	465	12.9	47.3	20.6	18.1	1.1	47.3	0.1	0.1	0.9	39.6	53.2
Ireland	408	8.1	83.9	2.8	4.8	0.4	83.9	0.0	0.0	0.4	83.6	84.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	3.4	92.3	2.7	1.6	0.1	92.3	0.0	0.1	0.0	91.3	93.1
Korea	360	6.3	88.4	3.7	1.6	0.0	88.4	0.0	0.0	0.0	88.7	88.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	8.4	74.9	8.3	4.8	3.6	74.9	0.0	0.9	2.7	75.6	74.1
Lithuania	312	8.7	68.9	8.3	8.2	6.0	68.9	0.0	0.8	5.1	71.5	66.4
Netherlands	265	3.2	94.5	1.0	0.9	0.4	94.5	0.0	0.4	0.0	94.1	94.7
New Zealand	394	5.9	81.4	7.7	4.6	0.4	81.4	0.0	0.0	0.4	77.9	84.2
Norway	304	6.7	81.3	5.9	5.2	0.9	81.3	0.0	0.2	0.7	83.0	79.9
Philippines	721	18.6	44.8	30.7	5.7	0.3	44.8	0.0	0.1	0.1	42.8	47.1
Portugal	426	12.1	71.6	9.1	6.6	0.5	71.6	0.0	0.0	0.5	68.4	74.9
Romania	470	11.9	63.7	10.0	8.1	6.2	63.7	0.0	1.4	4.9	61.7	65.5
Russian Federation	514	6.9	81.6	6.0	3.7	1.8	81.6	0.4	0.6	0.8	84.6	78.2
Scotland	370	3.3	87.5	4.4	4.3	0.6	87.5	0.0	0.6	0.0	87.6	87.2
Singapore	449	2.2	93.9	2.2	1.0	0.6	93.9	0.0	0.3	0.3	91.9	95.8
Slovak Republic	440	6.9	77.7	8.2	6.7	0.6	77.7	0.0	0.0	0.6	74.0	81.3
Slovenia	372	5.9	87.1	4.0	2.8	0.2	87.1	0.0	0.0	0.2	84.7	89.3
South Africa	610	19.6	56.6	9.3	11.7	2.9	56.6	0.2	1.4	1.3	55.3	57.8
Spain	451	6.7	77.6	6.2	8.5	0.8	77.6	0.0	0.0	0.8	75.2	79.8
Sweden	362	5.1	81.5	6.3	6.7	0.5	81.5	0.0	0.0	0.5	81.2	81.7
Switzerland	518	3.7	83.5	6.1	6.4	0.3	83.5	0.0	0.2	0.1	81.4	86.0
Thailand	696	9.1	80.5	6.2	3.7	0.4	80.5	0.0	0.2	0.2	80.1	81.5
United States	480	8.3	83.2	4.7	3.1	0.7	83.2	0.0	0.0	0.7	82.9	83.5
INTERNATIONAL AVG	.	7.5	78.0	7.3	5.8	1.3	78.0	0.0	0.4	0.9	76.8	79.2

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: P02  
 Explain relationship between illuminance and distance of light source. (Physics)  
 Difficulty: 770

COUNTRY	N												NOT REACH	OMIT	1.GIRL	2.BOY		
		10	11	12	19	70	71	72	73	79	90	99	V1		ED	% Right	% Right	
Australia	687	7.3	15.2	1.4	1.1	32.9	13.5	6.5	6.1	14.0	0.1	1.8	25.1	0.0	1.8	29.1	20.9	
Austria	373	3.4	5.6	0.0	0.0	35.9	14.0	7.2	7.6	24.2	0.7	1.4	9.0	0.4	1.0	8.5	9.7	
Belgium (Fl)	342	4.2	12.3	3.8	1.8	56.2	8.2	2.2	2.5	7.5	0.6	0.7	22.1	0.0	0.7	20.5	23.9	
Belgium (Fr)	280	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	79.6	0.0	6.6	13.8	0.8	5.8	16.1	11.8	
Bulgaria	240	25.9	6.9	1.3	4.2	8.1	24.7	0.0	17.7	0.8	1.5	9.0	38.2	2.4	6.6	41.1	34.8	
Canada	1030	3.4	15.4	1.3	3.1	44.6	8.5	4.5	4.2	13.2	0.5	1.4	23.2	0.0	1.4	22.8	23.9	
Colombia	333	0.2	0.5	1.2	2.3	27.5	10.4	12.6	2.7	35.3	0.3	6.9	4.2	3.2	3.7	5.3	3.1	
Cyprus	337	2.6	0.7	2.3	1.0	34.8	31.7	4.9	11.0	7.3	0.6	3.2	6.6	0.4	2.8	6.6	6.6	
Czech Republic	417	3.1	7.0	1.7	0.5	42.7	15.0	4.0	8.7	16.7	0.0	0.7	12.3	0.0	0.7	13.5	11.0	
Denmark	269	0.3	14.5	0.0	3.8	28.4	24.3	0.0	13.0	8.0	0.5	7.2	18.6	0.0	7.2	19.3	19.1	
England	221	1.5	16.2	1.9	3.3	46.6	7.1	7.5	1.6	14.2	0.0	0.0	22.9	0.0	0.0	19.8	25.4	
France	371	2.1	5.3	1.2	2.3	25.5	21.2	9.4	11.8	15.4	1.9	3.8	11.0	0.0	3.8	10.5	10.7	
Germany	351	1.9	9.8	1.2	2.6	41.2	20.1	4.7	7.5	4.5	0.2	6.2	15.6	0.3	5.9	14.0	17.1	
Greece	484	1.4	5.7	3.4	6.5	26.5	14.1	11.5	10.1	12.7	1.0	7.1	17.0	0.0	7.1	16.7	17.4	
Hong Kong	425	2.9	9.8	0.6	0.7	20.7	26.5	4.7	13.9	18.5	0.3	1.4	14.0	0.0	1.4	10.6	16.8	
Hungary	377	21.5	10.6	1.7	4.2	33.6	7.1	0.6	5.9	4.8	1.1	8.9	38.0	0.2	8.7	38.5	37.5	
Iceland	237	0.9	4.9	3.7	1.7	39.3	15.8	3.9	9.8	15.6	1.5	3.0	11.2	0.0	3.0	10.4	12.4	
Iran, Islamic Rep.	465	0.0	0.5	1.0	38.2	15.6	7.8	2.0	4.9	26.2	0.8	3.1	39.6	0.1	3.0	28.6	47.4	
Ireland	408	2.8	11.3	1.5	2.0	38.9	8.2	8.0	5.1	20.6	0.0	1.5	17.6	0.2	1.3	11.3	25.7	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	8.8	2.9	0.5	15.2	14.8	5.8	27.0	6.8	16.7	0.1	1.3	27.3	0.1	1.2	22.7	31.5	
Korea	360	8.3	20.6	5.4	3.5	29.4	5.6	9.6	3.0	13.0	0.0	1.6	37.8	0.0	1.6	33.6	40.8	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	6.7	4.9	1.3	2.3	34.6	22.9	5.8	8.7	3.0	2.1	7.7	15.3	0.9	6.8	13.2	17.4	
Lithuania	312	1.0	3.9	2.0	1.3	19.6	26.7	3.9	16.1	8.2	0.3	17.0	8.2	1.1	15.9	9.1	7.3	
Netherlands	265	1.5	18.0	1.2	1.0	46.9	17.7	0.0	3.3	9.7	0.0	0.8	21.7	0.4	0.4	23.7	19.2	
New Zealand	392	1.8	16.2	4.1	5.5	34.9	9.9	1.7	5.2	19.9	0.3	0.4	27.7	0.0	0.4	29.6	26.1	
Norway	304	1.9	17.5	0.0	0.0	18.8	19.1	23.3	10.5	6.7	0.2	2.0	19.4	0.2	1.8	15.2	22.9	
Philippines	721	9.8	1.4	1.0	1.8	15.1	17.3	9.7	6.2	30.9	2.1	4.6	14.0	0.1	4.4	14.1	13.9	
Portugal	426	1.7	3.4	0.2	3.7	39.7	10.9	15.0	4.8	17.2	0.1	3.2	9.1	0.0	3.2	7.9	10.3	
Romania	469	3.8	5.7	1.2	2.9	15.5	27.3	5.9	14.7	6.3	0.9	15.9	13.5	1.4	14.5	13.6	13.5	
Russian Federation	514	1.7	4.3	2.3	2.5	32.9	24.9	2.0	8.5	9.8	1.3	9.8	10.8	0.6	9.2	9.5	12.2	
Scotland	370	3.3	9.4	2.1	3.6	44.7	8.0	6.6	5.2	15.9	0.3	0.9	18.5	0.6	0.2	17.7	19.4	
Singapore	449	3.7	4.7	0.9	10.4	28.9	8.0	18.4	6.5	17.3	0.0	1.3	19.6	0.3	1.0	17.2	21.7	
Slovak Republic	440	6.9	11.5	3.7	6.5	29.8	17.8	5.2	9.5	7.8	0.0	1.3	28.6	0.0	1.3	28.1	29.0	
Slovenia	372	4.4	8.0	1.1	4.7	40.9	16.8	5.3	7.1	10.0	1.0	0.7	18.2	0.0	0.7	17.6	18.7	
South Africa	610	0.6	1.6	0.7	2.7	12.4	30.6	4.6	14.7	18.3	0.4	13.3	5.6	1.5	11.8	4.7	6.7	
Spain	451	2.1	9.7	1.6	5.4	29.5	10.0	15.5	4.7	19.7	0.0	1.9	18.8	0.0	1.9	15.4	21.8	
Sweden	362	2.2	7.4	1.5	15.0	35.4	16.7	6.3	6.6	7.2	0.7	0.9	26.1	0.0	0.9	22.7	28.6	
Switzerland	518	1.3	6.8	0.4	2.5	51.9	14.5	7.5	5.1	8.2	0.5	1.1	11.1	0.2	1.0	8.1	14.6	
Thailand	696	0.6	3.5	0.0	0.3	42.9	8.4	8.2	3.7	27.5	0.0	4.9	4.4	0.2	4.7	4.7	3.9	
United States	480	3.1	12.0	2.0	3.5	39.1	7.1	4.8	8.2	18.6	0.3	1.5	20.5	0.0	1.5	17.8	23.5	
INTERNATIONAL AVG	.	4.0	8.1	1.6	4.7	31.4	15.1	7.0	7.6	15.8	0.6	4.1	18.4	0.4	3.8	17.2	19.5	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: P03  
 Give reason why planet would be uninhabitable from physical data table. (Earth Science)  
 Difficulty: 389

COUNTRY	N	NOT REACH ED										V1	OMIT	1.GIRL % Right	2.BOY % Right	
		10	11	12	13	14	19	70	79	90	99					
Australia	687	5.5	24.6	0.2	12.1	33.4	0.7	0.7	10.6	1.2	10.9	76.6	0.0	10.9	83.2	69.7
Austria	373	2.5	17.7	0.0	8.5	45.4	0.2	0.0	11.0	3.7	10.9	74.4	0.4	10.6	81.7	67.0
Belgium (Fl)	342	12.5	31.8	1.2	13.9	11.7	14.6	0.6	10.6	0.0	2.9	85.9	0.0	2.9	89.2	82.1
Belgium (Fr)	280	0.0	0.0	0.0	0.0	0.0	78.5	0.0	7.2	0.0	14.3	78.5	0.8	13.5	82.1	75.3
Bulgaria	240	6.9	15.5	3.4	24.0	17.9	1.6	0.8	1.9	0.8	27.2	69.3	2.4	24.8	74.6	63.1
Canada	1030	6.1	25.1	1.8	16.2	28.8	4.0	0.4	10.2	1.5	6.0	82.0	0.0	6.0	90.0	73.6
Colombia	333	0.5	8.6	0.4	12.5	29.0	3.0	0.3	19.8	1.5	24.4	54.0	3.2	21.2	50.4	57.5
Cyprus	337	11.9	33.2	0.0	3.2	12.3	1.9	0.0	7.8	0.6	29.1	62.5	0.4	28.7	71.0	54.8
Czech Republic	417	2.7	14.6	0.7	16.1	51.8	3.3	0.0	6.5	0.2	4.0	89.2	0.0	4.0	87.1	91.5
Denmark	269	2.0	3.9	0.4	29.8	11.2	1.2	1.6	18.6	0.0	31.3	48.5	0.2	31.1	43.2	55.6
England	221	4.3	18.1	0.0	19.3	39.3	8.5	0.0	6.8	0.0	3.8	89.4	0.0	3.8	94.4	85.6
France	371	7.8	15.7	0.0	22.4	33.6	4.6	0.1	6.5	1.1	8.1	84.2	0.0	8.1	85.6	83.7
Germany	352	6.6	24.2	0.5	10.3	34.5	2.1	0.0	3.3	1.1	17.5	78.2	0.3	17.2	77.3	81.0
Greece	484	9.0	25.6	0.2	11.9	19.4	5.7	0.4	8.3	1.4	18.0	71.9	0.0	18.0	78.9	66.2
Hong Kong	425	0.2	25.0	0.2	7.2	4.5	2.8	0.3	40.3	0.5	19.1	39.8	0.0	19.1	38.1	41.2
Hungary	377	1.2	11.4	0.2	3.9	64.3	3.5	0.0	3.2	0.2	12.1	84.6	0.2	11.9	85.1	84.1
Iceland	237	3.5	14.0	1.5	19.3	42.3	0.0	0.4	3.6	2.0	13.4	80.6	0.0	13.4	81.1	80.0
Iran, Islamic Rep.	465	0.5	11.3	0.8	9.5	17.3	19.8	0.0	15.3	1.2	24.3	59.2	0.1	24.1	53.3	64.0
Ireland	408	6.6	24.5	0.0	16.9	40.6	2.0	0.2	5.0	0.7	3.5	90.6	0.2	3.3	91.9	89.0
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	7.6	12.5	1.7	28.0	32.2	0.0	0.6	12.5	0.2	4.5	82.1	0.1	4.4	81.5	82.6
Korea	360	21.4	19.0	1.5	36.2	5.6	2.6	0.0	11.7	0.0	2.0	86.3	0.0	2.0	82.5	89.0
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	1.3	16.9	2.3	15.5	25.0	2.8	1.9	8.2	3.0	23.0	63.9	1.1	21.8	66.4	61.4
Lithuania	312	2.9	11.5	0.4	9.2	20.5	1.5	0.0	7.1	0.3	46.6	46.0	1.1	45.5	50.3	41.8
Netherlands	265	1.4	23.8	2.6	17.9	41.8	1.2	0.0	6.0	0.9	4.1	88.9	0.4	3.7	88.6	89.1
New Zealand	392	1.9	29.3	1.6	17.1	29.9	1.8	0.4	9.2	0.2	8.6	81.6	0.0	8.6	85.6	78.3
Norway	304	0.9	24.8	0.0	17.5	43.6	0.0	1.2	5.1	0.9	6.0	86.9	0.5	5.5	90.9	83.5
Philippines	721	10.0	10.0	0.4	10.4	14.0	1.0	0.7	18.3	6.1	29.1	45.8	0.1	29.0	49.7	41.1
Portugal	426	6.6	18.0	0.3	12.2	34.5	3.6	0.6	12.6	1.5	10.1	75.2	0.0	10.1	73.9	76.7
Romania	469	9.1	17.6	1.1	13.8	18.2	1.3	0.4	9.6	1.1	27.9	61.1	1.4	26.5	61.2	61.0
Russian Federation	514	7.2	18.0	0.5	16.0	31.7	1.6	0.4	2.9	2.7	19.0	75.0	0.6	18.3	79.4	70.2
Scotland	370	6.9	35.9	1.8	19.5	18.4	1.3	0.0	10.5	0.0	5.7	83.8	0.6	5.1	84.6	82.9
Singapore	449	8.3	30.8	0.8	17.7	34.4	0.5	0.3	1.9	0.0	5.1	92.7	0.3	4.8	94.3	91.1
Slovak Republic	440	6.7	18.7	2.2	18.0	28.4	7.9	2.7	7.0	0.6	7.8	81.9	0.0	7.8	75.3	88.4
Slovenia	372	7.3	18.9	2.9	12.9	36.6	3.5	0.5	6.0	1.3	10.2	82.1	0.0	10.2	84.7	79.6
South Africa	610	5.9	9.4	0.5	4.4	2.4	3.7	0.9	31.6	0.7	40.4	26.4	1.7	38.6	28.5	24.6
Spain	451	2.1	14.3	0.9	17.5	44.7	1.0	1.6	7.6	0.0	10.3	80.6	0.0	10.3	83.6	77.8
Sweden	362	1.6	15.5	0.0	15.4	51.7	1.4	0.5	7.0	1.7	5.2	85.6	0.0	5.2	88.6	83.3
Switzerland	518	4.7	25.5	0.5	14.4	33.0	2.3	0.6	9.3	1.2	8.4	80.4	0.2	8.2	80.6	80.1
Thailand	696	2.5	26.0	0.0	10.9	26.7	0.9	0.6	20.2	0.1	11.9	67.1	0.4	11.5	70.8	63.0
United States	480	6.1	30.7	0.4	21.0	22.4	2.5	0.6	9.8	0.5	6.1	83.1	0.0	6.1	88.3	77.1
INTERNATIONAL AVG	.	5.3	19.3	0.9	15.1	28.3	5.0	0.5	10.3	1.0	14.3	73.9	0.4	13.9	75.7	72.2

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: P04 KEY: E  
 Identify what happens to animals' biological processes during hibernation. (Life Science)  
 Difficulty: 559

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	687	5.2	5.8	9.6	36.6	42.1	0.7	42.1	0.0	0.1	0.6	45.7	38.4
Austria	373	4.9	2.5	12.6	8.3	68.3	3.4	68.3	0.0	0.8	2.6	70.9	64.2
Belgium (Fl)	342	2.4	0.9	12.0	17.3	66.8	0.6	66.8	0.3	0.0	0.2	66.1	67.7
Belgium (Fr)	280	5.0	2.2	8.6	24.1	54.1	5.9	54.1	1.4	0.9	3.5	53.7	54.1
Bulgaria	240	3.8	1.6	7.6	7.1	74.9	5.0	74.9	0.4	2.7	1.8	76.7	72.8
Canada	1030	3.3	2.4	9.8	22.3	61.0	1.3	61.0	0.1	0.0	1.2	62.2	60.1
Colombia	333	18.2	18.4	12.2	15.8	20.8	14.6	20.8	0.0	4.0	10.6	23.7	17.3
Cyprus	337	15.8	9.7	14.5	20.7	36.7	2.6	36.7	0.0	0.4	2.2	40.7	33.1
Czech Republic	417	3.6	1.6	12.2	21.7	59.2	1.6	59.2	1.0	0.0	0.6	55.6	63.1
Denmark	269	6.0	3.8	4.4	32.8	48.3	4.7	48.3	1.9	0.7	2.1	49.3	49.0
England	221	7.4	2.5	5.4	38.8	45.8	0.1	45.8	0.0	0.0	0.1	43.8	47.3
France	371	4.4	2.7	13.4	12.2	63.4	3.8	63.4	2.5	0.0	1.4	62.5	65.4
Germany	356	4.3	1.8	9.9	10.9	69.9	3.2	69.9	2.0	0.3	0.9	65.1	75.4
Greece	484	17.0	8.1	13.5	21.9	37.4	2.0	37.4	0.3	0.0	1.7	38.3	36.2
Hong Kong	427	1.5	3.0	17.3	14.0	64.3	0.0	64.3	0.0	0.0	0.0	61.4	66.5
Hungary	377	1.5	0.7	6.5	18.7	67.2	5.5	67.2	0.3	0.2	5.1	62.3	71.8
Iceland	237	4.9	3.6	12.7	37.7	38.8	2.3	38.8	0.4	0.2	1.6	34.2	45.1
Iran, Islamic Rep.	465	8.9	3.9	10.9	21.3	51.1	4.0	51.1	0.4	0.1	3.4	56.5	47.5
Ireland	408	5.7	2.0	5.6	33.9	52.2	0.6	52.2	0.4	0.2	0.0	46.0	60.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	0.8	1.1	19.4	29.4	48.5	0.8	48.5	0.3	0.1	0.4	44.9	51.7
Korea	360	6.0	2.7	8.8	20.1	62.4	0.0	62.4	0.0	0.0	0.0	58.5	65.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	2.1	1.8	3.8	47.1	39.5	5.8	39.5	0.0	1.1	4.6	35.6	43.4
Lithuania	312	9.3	1.1	3.8	48.4	26.4	11.0	26.4	1.0	1.1	8.9	30.2	22.8
Netherlands	265	1.0	2.9	3.7	19.1	72.2	1.2	72.2	0.0	0.4	0.8	70.1	74.1
New Zealand	394	4.9	3.8	8.0	40.8	40.5	2.0	40.5	0.0	0.0	2.0	44.1	37.6
Norway	304	11.5	3.4	10.7	26.3	44.9	3.2	44.9	0.0	0.5	2.7	46.4	43.6
Philippines	721	16.1	13.9	20.0	23.2	26.4	0.6	26.4	0.1	0.1	0.3	26.9	25.7
Portugal	426	6.7	2.4	17.0	28.5	44.7	0.7	44.7	0.0	0.4	0.3	39.6	49.9
Romania	466	7.1	3.9	9.3	13.4	56.4	9.9	56.4	4.0	1.4	4.5	53.5	58.9
Russian Federation	514	3.0	1.8	5.3	15.3	71.0	3.6	71.0	0.0	0.8	2.8	72.4	69.5
Scotland	370	6.8	4.2	8.5	36.5	42.8	1.2	42.8	0.0	0.6	0.6	40.8	45.2
Singapore	449	11.7	16.7	18.0	16.0	32.9	4.8	32.9	0.0	0.3	4.5	29.5	35.9
Slovak Republic	440	1.5	1.3	12.2	24.0	59.8	1.2	59.8	1.1	0.0	0.1	54.3	65.3
Slovenia	372	0.8	1.1	9.1	22.2	63.4	3.5	63.4	2.4	0.0	1.1	62.2	64.5
South Africa	610	17.5	25.6	18.6	14.0	19.3	5.1	19.3	0.5	2.0	2.5	20.7	18.1
Spain	451	8.5	6.3	10.7	23.1	50.0	1.3	50.0	0.0	0.0	1.3	48.3	51.5
Sweden	362	4.2	4.4	13.7	29.6	46.2	1.9	46.2	0.7	0.0	1.1	47.9	45.0
Switzerland	518	2.9	3.9	10.1	19.4	60.2	3.5	60.2	1.1	0.6	1.8	60.8	59.4
Thailand	.	.	.	.	.	.	.	.	.	.	.	.	.
United States	480	3.4	3.7	10.7	27.1	54.0	1.1	54.0	0.0	0.0	1.1	54.9	52.9
INTERNATIONAL AVG	.	6.4	4.7	10.8	24.1	50.9	3.2	50.9	0.6	0.5	2.1	50.2	51.7

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: P05  
 Explain why balloon expands upon heating. (Physics)  
 Difficulty: 549

COUNTRY	N	NOT REACH ED										OMIT	1. GIRL % Right	2. BOY % Right	
		10	11	19	70	71	76	79	90	99	V1				
Australia	687	6.4	14.8	27.8	10.2	1.9	0.3	28.9	1.7	7.9	49.1	0.1	7.8	54.1	43.9
Austria	373	11.8	41.5	0.0	5.7	4.7	4.2	25.4	1.0	5.8	53.2	0.8	5.0	47.3	59.8
Belgium (Fl)	342	7.6	51.6	4.0	7.0	2.2	3.1	16.7	1.3	6.6	63.2	0.0	6.6	66.6	59.5
Belgium (Fr)	280	0.0	0.0	52.0	0.0	0.0	0.0	33.0	0.0	15.0	52.0	0.9	14.1	46.1	57.7
Bulgaria	240	49.5	12.9	1.8	5.1	0.3	0.6	2.8	1.1	25.9	64.2	2.7	23.3	71.5	55.6
Canada	1030	5.2	25.1	18.6	8.5	3.3	0.5	30.7	1.4	6.8	48.8	0.0	6.8	44.4	54.2
Colombia	333	0.9	47.1	3.3	0.0	0.0	9.5	18.5	0.3	20.4	51.4	4.4	15.9	44.4	57.5
Cyprus	337	1.3	43.7	2.3	1.3	2.2	3.2	18.3	0.7	27.0	47.3	0.4	26.6	46.0	48.4
Czech Republic	417	3.0	59.3	6.2	4.9	1.1	1.5	20.3	0.0	3.6	68.6	0.0	3.6	66.0	71.3
Denmark	269	3.1	33.7	15.2	1.5	0.0	1.2	22.5	0.0	22.8	52.1	0.7	22.0	44.7	60.3
England	221	9.3	45.2	8.3	10.7	1.9	0.4	21.8	1.0	1.4	62.8	0.0	1.4	64.8	61.2
France	371	13.1	32.7	4.1	3.7	0.8	1.9	22.5	1.2	20.1	49.8	0.0	20.1	47.4	52.0
Germany	352	8.9	36.5	1.8	10.0	7.1	2.3	17.0	0.9	15.5	47.2	0.3	15.2	41.4	54.0
Greece	484	7.4	47.9	4.1	1.6	2.3	2.1	16.4	1.6	16.7	59.4	0.0	16.7	57.9	61.0
Hong Kong	427	1.1	41.5	2.1	10.1	1.3	2.4	28.7	0.4	12.4	44.6	0.0	12.4	40.7	47.8
Hungary	377	9.9	29.0	7.6	5.6	4.5	8.4	21.7	0.0	13.4	46.5	0.2	13.3	43.7	49.1
Iceland	237	6.8	35.5	8.2	3.2	4.1	1.3	25.9	3.1	11.9	50.5	0.2	11.7	46.5	56.1
Iran, Islamic Rep.	465	17.8	26.2	8.6	1.3	0.2	0.0	31.1	0.5	14.3	52.6	0.1	14.2	44.1	58.6
Ireland	408	3.4	36.5	14.0	9.4	1.2	1.6	29.1	0.0	4.9	53.9	0.2	4.7	52.8	55.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	0.0	60.4	6.6	2.5	2.4	0.5	21.0	0.5	5.9	67.0	0.1	5.8	62.6	70.9
Korea	360	29.8	33.8	8.5	4.3	4.3	1.1	16.3	0.0	1.9	72.1	0.0	1.9	63.0	78.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	9.0	34.2	2.8	7.9	1.1	0.9	20.4	2.0	21.7	46.0	1.1	20.6	38.8	53.4
Lithuania	312	1.2	46.8	0.3	2.8	0.2	0.2	13.0	1.5	33.9	48.3	1.1	32.8	37.8	58.4
Netherlands	265	1.7	40.3	1.0	6.7	1.6	0.0	40.0	1.7	7.0	43.0	0.4	6.6	39.1	47.2
New Zealand	393	2.6	35.7	3.7	20.1	8.5	6.4	15.3	0.2	7.5	42.0	0.5	7.0	40.1	43.5
Norway	304	1.1	59.2	2.6	3.0	0.7	0.8	22.2	1.5	8.9	62.9	0.5	8.4	61.4	64.2
Philippines	721	6.8	14.3	3.1	4.2	1.1	19.4	27.9	2.2	21.1	24.1	0.1	20.9	24.6	23.6
Portugal	426	18.0	23.9	5.4	2.6	0.0	4.2	28.2	2.3	15.4	47.3	0.4	14.9	43.5	51.1
Romania	470	13.7	30.3	2.3	5.8	1.2	1.2	17.5	0.6	27.4	46.3	1.4	26.0	43.7	48.7
Russian Federation	514	9.2	33.5	4.9	5.3	2.0	1.3	23.5	3.5	16.9	47.5	1.0	15.9	44.3	51.2
Scotland	370	4.8	38.2	6.3	6.5	2.4	3.2	31.6	0.3	6.7	49.3	0.9	5.8	49.6	48.6
Singapore	449	21.8	32.1	1.1	21.9	1.3	5.4	13.2	0.2	2.9	55.0	0.3	2.6	48.9	60.5
Slovak Republic	440	5.6	54.8	6.5	7.3	2.0	2.2	16.0	0.0	5.7	66.9	0.0	5.7	60.6	73.2
Slovenia	372	12.2	38.5	12.5	1.7	4.2	3.4	22.4	0.3	4.8	63.2	0.0	4.8	61.7	64.5
South Africa	610	5.2	4.0	3.9	4.2	3.3	11.0	31.5	1.3	35.6	13.1	2.0	33.6	9.3	17.0
Spain	451	3.0	48.3	2.5	5.6	4.7	1.0	24.3	0.4	10.1	53.8	0.0	10.1	47.4	59.5
Sweden	362	2.8	56.8	0.8	5.9	1.6	3.3	21.8	1.2	5.7	60.4	0.0	5.7	58.7	61.7
Switzerland	518	3.3	48.3	1.8	6.0	3.2	4.1	24.7	1.3	7.4	53.4	0.6	6.8	45.5	62.8
Thailand	696	17.8	32.2	7.6	6.3	1.5	8.4	17.0	0.0	9.2	57.5	0.7	8.5	57.8	58.7
United States	480	5.7	28.2	2.2	3.6	4.7	1.8	44.0	0.9	8.9	36.1	0.2	8.7	35.3	37.0
INTERNATIONAL AVG	.	8.5	36.4	6.9	5.9	2.3	3.1	23.1	1.0	12.9	51.8	0.6	12.4	48.6	54.9

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent



Item: P06  
 Describe digestion occurring in the mouth. (Life Science)  
 Difficulty: 636

COUNTRY	N	20	21	22	29	10	11	19	70	71	79	90	99	V1	V2	NOT	OMIT	1.GIRL	2.BOY	
																REACH		% Right	% Right	
Australia	687	33.6	14.3	0.2	0.4	16.7	0.6	0.3	0.8	12.6	3.0	2.8	14.6	66.2	48.6	0.1	14.5	52.0	45.0	
Austria	373	18.8	21.9	0.2	0.0	27.2	0.0	0.4	1.1	4.3	7.5	3.7	15.0	68.5	40.9	0.8	14.2	40.5	41.1	
Belgium (Fl)	342	40.1	19.6	1.5	1.7	21.4	0.6	0.6	0.5	3.7	3.0	0.0	7.3	85.5	62.9	0.3	7.0	60.9	65.1	
Belgium (Fr)	280	0.0	0.0	0.0	30.8	0.0	0.0	21.6	0.0	0.0	16.4	0.0	31.2	52.4	30.8	0.9	30.3	29.6	32.8	
Bulgaria	240	28.1	2.2	0.4	0.0	18.4	0.4	1.1	0.0	17.4	1.9	0.6	29.6	50.5	30.7	2.7	26.9	35.4	25.0	
Canada	1030	21.0	14.1	0.0	3.3	12.7	0.1	2.8	0.8	12.9	7.4	3.8	21.2	53.9	38.3	0.0	21.2	38.1	38.7	
Colombia	333	25.3	0.2	0.3	2.1	17.3	0.0	7.6	0.0	3.8	16.7	0.0	26.7	52.8	27.9	4.4	22.3	28.1	27.3	
Cyprus	337	14.7	1.6	0.0	0.7	7.9	0.4	0.7	0.2	1.0	15.3	1.6	55.9	26.1	17.0	0.4	55.5	21.9	12.6	
Czech Republic	417	24.0	8.9	13.2	1.2	14.6	5.3	1.5	2.4	4.5	10.4	1.2	12.9	68.7	47.3	0.0	12.9	49.7	44.7	
Denmark	269	15.6	8.3	1.3	0.5	16.8	1.6	1.8	4.6	4.2	5.0	0.2	40.0	46.0	25.8	0.7	39.2	28.3	25.1	
England	221	26.5	14.1	0.8	4.9	11.0	0.0	1.3	0.0	17.6	3.7	5.2	14.9	58.7	46.4	0.0	14.9	51.2	42.7	
France	371	13.9	3.3	0.0	1.5	23.4	0.2	1.4	0.2	6.4	13.7	0.7	35.3	43.7	18.7	0.0	35.3	17.6	19.7	
Germany	353	19.6	10.4	1.6	0.9	17.7	1.5	1.7	0.5	2.3	4.6	1.3	37.9	53.4	32.5	0.3	37.6	29.1	35.4	
Greece	484	22.9	23.7	1.3	1.4	14.8	0.4	2.1	0.0	0.5	10.2	2.6	20.1	66.7	49.3	0.0	20.1	48.8	50.0	
Hong Kong	427	19.4	2.1	0.4	0.2	23.0	0.3	2.1	1.5	21.4	5.8	0.8	22.8	47.6	22.2	0.0	22.8	21.3	23.0	
Hungary	377	20.8	32.1	0.0	2.9	13.3	0.3	2.6	0.0	6.2	6.0	0.5	15.5	71.9	55.8	0.5	14.9	53.1	58.4	
Iceland	237	27.8	3.1	0.0	1.1	12.3	0.5	0.4	1.5	28.8	8.8	1.5	14.3	45.1	32.0	0.2	14.1	36.1	26.3	
Iran, Islamic Rep.	465	14.1	0.1	2.0	1.5	34.5	3.6	3.7	0.1	8.6	18.0	1.3	12.6	59.4	17.6	0.1	12.5	22.5	14.3	
Ireland	408	17.6	19.3	3.2	0.5	18.4	0.7	0.8	1.2	14.8	8.2	2.0	13.3	60.5	40.6	0.2	13.1	42.4	38.3	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	22.2	8.9	0.7	0.2	13.3	0.5	14.0	0.3	14.8	5.5	2.3	17.4	59.7	32.0	0.1	17.3	36.1	28.3	
Korea	360	17.4	13.2	1.0	5.0	11.4	1.1	2.1	0.0	28.4	11.6	8.5	0.3	51.2	36.6	0.0	0.3	30.8	40.5	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	16.9	2.9	0.0	0.0	18.1	0.0	0.3	1.1	12.3	5.4	2.9	40.0	38.2	19.8	1.7	38.3	16.4	23.4	
Lithuania	312	3.2	0.2	0.0	0.2	14.3	0.0	0.4	4.0	8.8	5.9	2.0	61.1	18.3	3.6	1.4	59.6	3.4	3.8	
Netherlands	265	17.0	10.4	0.0	0.0	36.3	0.0	4.0	0.4	0.0	8.8	11.0	12.2	67.7	27.4	0.4	11.8	23.9	30.3	
New Zealand	393	17.9	12.0	0.0	0.5	25.2	0.0	0.8	1.3	19.6	4.0	2.2	16.6	56.3	30.3	0.5	16.1	34.1	27.3	
Norway	304	24.6	0.2	0.7	0.0	15.3	0.4	1.0	5.2	3.7	9.6	9.4	29.9	42.2	25.5	0.5	29.4	21.7	28.7	
Philippines	721	19.1	0.7	0.3	0.6	8.0	1.2	1.0	7.6	22.6	13.9	5.0	20.0	30.9	20.7	0.1	19.8	20.5	20.8	
Portugal	426	20.7	4.4	0.1	1.0	21.2	0.5	1.3	0.0	13.3	13.9	0.7	22.8	49.3	26.3	0.4	22.3	27.0	25.5	
Romania	470	30.2	5.6	0.3	0.0	37.3	0.2	4.9	0.2	0.8	3.8	0.2	16.5	78.5	36.2	1.4	15.1	40.2	32.5	
Russian Federation	514	22.7	2.1	0.8	2.7	14.1	0.9	0.8	0.4	16.1	5.5	1.7	32.2	44.1	28.3	1.2	31.0	31.3	25.1	
Scotland	370	18.4	9.2	0.4	2.2	18.7	0.7	1.4	0.8	14.5	7.8	4.0	21.8	51.1	30.2	1.1	20.7	31.7	29.0	
Singapore	449	13.8	5.7	0.4	0.0	13.8	0.5	0.7	0.8	38.0	6.8	1.5	18.1	34.8	19.8	0.3	17.8	22.3	17.6	
Slovak Republic	440	9.6	1.5	12.5	1.5	6.9	15.4	6.8	1.2	4.4	16.1	2.2	22.0	54.2	25.1	0.3	21.7	20.2	30.0	
Slovenia	372	28.7	12.2	5.4	3.2	15.0	1.0	6.2	2.8	0.2	8.4	1.4	15.3	71.8	49.6	0.0	15.3	53.3	46.1	
South Africa	610	6.8	2.2	0.0	1.9	1.7	0.2	1.4	0.3	10.9	29.2	1.7	43.6	14.3	11.0	2.2	41.4	11.9	10.2	
Spain	451	36.3	10.9	0.0	4.0	17.2	0.2	0.5	2.0	17.1	4.0	0.2	7.6	69.1	51.2	0.0	7.6	51.9	50.5	
Sweden	362	19.8	3.4	0.0	0.2	18.8	0.0	3.3	2.0	14.4	10.9	8.7	18.5	45.5	23.4	0.0	18.5	23.9	22.9	
Switzerland	518	12.5	2.9	0.0	1.0	24.5	0.3	1.3	2.7	7.7	9.1	8.1	29.9	42.5	16.3	0.6	29.2	19.2	12.9	
Thailand	696	5.7	27.7	8.7	0.4	17.0	4.6	12.1	0.5	0.0	5.4	0.5	17.4	76.1	42.5	0.9	16.5	43.1	42.4	
United States	480	21.9	25.1	1.1	3.0	7.6	0.0	1.1	1.4	16.5	7.6	2.4	12.1	59.9	51.2	0.4	11.8	54.1	47.9	
INTERNATIONAL AVG	.	19.7	9.0	1.5	2.1	16.9	1.1	3.0	1.3	10.9	9.0	2.7	22.9	53.3	32.3	0.6	22.3	33.1	31.5	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: P07 KEY: D

Select statement best describing the precision of repeated scientific measurements. (Environment and other content)

Difficulty: 570

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	687	27.6	5.0	4.7	62.1	0.6	62.1	0.0	0.1	0.5	68.4	55.6
Austria	373	56.1	5.0	7.1	29.4	2.4	29.4	0.0	0.8	1.6	26.3	33.2
Belgium (Fl)	342	43.0	2.3	4.6	46.7	3.4	46.7	0.0	0.3	3.1	49.5	43.6
Belgium (Fr)	280	40.6	4.3	7.9	42.3	5.0	42.3	0.6	0.9	3.4	42.6	41.6
Bulgaria	240	31.3	4.9	6.1	50.1	7.6	50.1	0.0	2.7	4.9	53.1	46.5
Canada	1030	29.8	4.5	3.2	60.6	2.0	60.6	0.2	0.0	1.7	65.4	55.1
Colombia	333	47.9	3.8	5.1	32.1	11.0	32.1	0.0	5.8	5.2	35.4	29.3
Cyprus	337	24.4	13.8	14.3	45.6	1.9	45.6	0.0	0.4	1.5	48.6	42.9
Czech Republic	417	30.3	2.3	4.2	61.3	1.9	61.3	0.0	0.0	1.9	65.3	57.1
Denmark	269	35.5	5.1	4.5	48.2	6.7	48.2	0.8	1.3	4.6	50.3	48.4
England	221	32.1	3.3	2.5	62.1	0.0	62.1	0.0	0.0	0.0	66.5	58.7
France	371	38.5	7.2	6.6	42.5	5.2	42.5	0.6	0.0	4.6	49.4	36.5
Germany	356	55.1	3.0	6.8	31.7	3.3	31.7	0.7	0.3	2.3	34.0	29.0
Greece	484	21.4	7.8	11.2	56.5	3.0	56.5	0.0	0.3	2.8	59.6	53.5
Hong Kong	428	8.9	9.8	11.0	70.1	0.2	70.1	0.0	0.0	0.2	73.8	67.1
Hungary	377	59.5	5.0	3.8	29.3	2.5	29.3	0.0	0.5	2.0	32.2	26.5
Iceland	237	34.8	4.9	5.0	52.4	2.9	52.4	0.4	0.2	2.2	56.4	47.0
Iran, Islamic Rep.	465	42.5	11.3	12.4	31.6	2.2	31.6	0.0	0.1	2.1	40.9	24.8
Ireland	408	37.4	1.6	5.0	55.0	1.0	55.0	0.3	0.2	0.5	53.8	56.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	50.1	10.1	8.6	30.0	1.3	30.0	0.0	0.1	1.2	27.3	32.4
Korea	360	14.2	1.4	6.4	78.0	0.0	78.0	0.0	0.0	0.0	79.7	76.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	318	34.2	7.8	7.6	44.9	5.4	44.9	0.0	1.9	3.5	50.9	38.8
Lithuania	312	36.3	1.9	3.6	48.0	10.1	48.0	0.0	1.6	8.5	52.4	43.8
Netherlands	265	31.5	6.4	6.5	54.8	0.9	54.8	0.0	0.4	0.5	54.5	55.5
New Zealand	394	36.4	7.8	4.7	49.2	1.9	49.2	0.0	0.5	1.4	53.8	45.4
Norway	304	34.1	4.1	5.1	54.4	2.3	54.4	0.0	0.8	1.5	62.9	47.4
Philippines	721	28.2	13.3	14.8	42.3	1.4	42.3	0.0	0.3	1.1	43.8	40.5
Portugal	426	47.7	5.4	7.3	35.3	4.3	35.3	0.0	0.8	3.4	33.3	37.3
Romania	470	35.2	6.0	5.2	46.0	7.6	46.0	1.8	1.4	4.5	51.7	40.8
Russian Federation	514	23.9	3.8	5.4	59.6	7.3	59.6	0.1	1.3	5.9	61.7	57.2
Scotland	370	37.1	3.2	5.7	52.5	1.4	52.5	0.0	1.1	0.3	54.3	51.0
Singapore	449	28.2	5.8	6.6	57.9	1.5	57.9	0.0	0.6	1.0	65.0	51.5
Slovak Republic	440	26.5	3.6	3.7	65.3	0.9	65.3	0.2	0.5	0.2	68.7	61.8
Slovenia	371	14.9	2.8	2.6	77.3	2.5	77.3	0.2	0.0	2.2	79.1	75.6
South Africa	610	27.1	21.4	19.8	26.3	5.4	26.3	0.0	2.2	3.2	27.2	25.7
Spain	451	68.4	2.5	4.3	24.2	0.7	24.2	0.0	0.0	0.7	25.0	23.4
Sweden	362	27.2	3.1	6.4	62.4	0.8	62.4	0.2	0.2	0.4	67.1	59.0
Switzerland	518	57.0	3.2	9.7	26.3	3.7	26.3	0.2	0.6	2.9	24.2	28.9
Thailand	696	8.0	3.5	15.7	70.4	2.3	70.4	0.0	1.1	1.2	73.4	66.9
United States	480	23.8	7.7	9.0	58.4	1.1	58.4	0.0	0.4	0.8	66.3	49.4
INTERNATIONAL AVG	.	34.7	5.7	7.1	49.3	3.1	49.3	0.2	0.7	2.2	52.3	46.6

DIFF = Item Difficulty

Because of missing gender information, some totals may appear inconsistent

Item: Q11 KEY: A  
 Choose statement explaining Earth's day/night cycle. (Earth Science)  
 Difficulty: 627

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	688	36.9	4.7	7.4	49.0	1.9	36.9	0.0	0.8	1.1	31.6	42.4
Austria	372	58.9	2.3	1.3	33.3	4.1	58.9	0.0	0.4	3.8	54.8	62.3
Belgium (Fl)	343	45.0	6.2	2.6	43.3	2.9	45.0	0.0	0.7	2.2	39.1	51.4
Belgium (Fr)	279	27.2	6.6	6.6	52.1	7.5	27.2	1.1	1.9	4.5	21.4	34.2
Bulgaria	240	49.6	3.8	2.5	37.0	7.1	49.6	4.0	1.8	1.3	49.2	50.1
Canada	1024	37.1	3.0	9.3	46.5	4.1	37.1	0.7	1.5	1.9	40.0	34.1
Colombia	335	21.5	5.2	1.9	45.9	25.5	21.5	1.1	20.7	3.7	16.8	26.0
Cyprus	338	41.4	6.4	3.4	42.6	6.3	41.4	0.0	2.8	3.5	40.1	42.5
Czech Republic	418	56.7	3.4	2.6	29.8	7.4	56.7	0.9	5.6	1.0	52.0	61.7
Denmark	273	26.3	5.4	4.8	55.1	8.5	26.3	1.3	4.4	2.7	23.3	26.8
England	221	32.7	2.3	13.8	49.1	2.1	32.7	0.0	1.6	0.5	25.0	38.5
France	375	24.8	3.1	7.3	59.8	5.0	24.8	0.6	2.0	2.5	23.2	26.5
Germany	356	44.6	4.3	5.3	40.0	5.7	44.6	3.9	0.5	1.4	38.5	52.0
Greece	483	41.6	3.6	3.4	46.5	4.9	41.6	0.4	3.3	1.1	34.9	47.1
Hong Kong	430	55.0	3.9	3.0	37.9	0.2	55.0	0.0	0.0	0.2	50.2	58.8
Hungary	377	40.8	4.4	2.2	43.5	9.0	40.8	0.0	5.8	3.3	38.3	43.2
Iceland	238	12.6	7.5	5.1	68.9	5.8	12.6	0.0	3.7	2.1	11.4	14.3
Iran, Islamic Rep.	464	18.4	8.7	5.3	64.6	2.9	18.4	0.1	1.1	1.7	14.6	21.5
Ireland	410	28.5	2.9	13.0	53.5	2.1	28.5	0.0	1.0	1.1	22.2	36.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	45.6	6.3	5.6	41.8	0.7	45.6	0.0	0.7	0.0	37.8	52.6
Korea	360	80.1	2.3	3.9	13.3	0.5	80.1	0.0	0.5	0.0	77.2	82.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	23.3	8.0	4.3	57.5	6.9	23.3	0.0	2.3	4.6	21.9	24.8
Lithuania	310	38.0	5.7	12.6	32.9	10.7	38.0	0.5	6.2	4.1	47.2	29.1
Netherlands	265	47.1	11.8	0.9	38.9	1.4	47.1	0.0	1.1	0.3	44.6	49.3
New Zealand	394	29.0	10.0	7.8	51.4	1.7	29.0	0.0	0.5	1.2	19.7	36.6
Norway	304	26.2	9.9	3.0	56.8	4.0	26.2	0.0	2.4	1.6	21.4	30.2
Philippines	723	47.2	5.5	3.3	43.0	1.0	47.2	0.0	0.4	0.6	45.1	49.5
Portugal	427	30.1	6.8	2.6	55.8	4.7	30.1	0.0	3.3	1.4	28.1	32.2
Romania	467	20.7	4.7	5.1	57.9	11.7	20.7	2.4	4.7	4.6	17.1	24.0
Russian Federation	513	53.5	5.0	8.6	21.9	11.0	53.5	0.9	6.9	3.2	54.5	52.3
Scotland	372	18.5	8.9	11.4	58.6	2.6	18.5	0.4	1.6	0.5	15.8	21.5
Singapore	449	56.3	5.8	7.2	30.7	0.0	56.3	0.0	0.0	0.0	50.0	62.0
Slovak Republic	440	49.6	5.5	6.5	31.3	7.1	49.6	1.8	3.1	2.2	42.0	57.2
Slovenia	372	49.8	4.4	3.7	40.5	1.6	49.8	0.3	0.5	0.8	41.6	57.4
South Africa	613	29.2	15.9	8.6	38.6	7.7	29.2	0.3	5.7	1.7	29.0	30.0
Spain	453	35.8	2.7	8.0	44.4	9.1	35.8	0.0	6.6	2.5	30.3	40.7
Sweden	360	33.0	4.8	5.0	54.6	2.6	33.0	0.5	2.0	0.0	32.7	33.3
Switzerland	519	38.8	4.9	4.5	46.1	5.8	38.8	2.0	3.1	0.7	33.8	44.8
Thailand	696	60.2	4.2	1.0	33.7	0.9	60.2	0.0	0.5	0.4	63.3	57.0
United States	482	49.4	5.0	6.4	37.8	1.3	49.4	0.0	0.3	1.0	44.9	54.5
INTERNATIONAL AVG	.	39.0	5.7	5.5	44.7	5.1	39.0	0.6	2.8	1.8	35.6	42.3

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: Q12  
 Explain how focusing affects the amount of light. (Physics)  
 Difficulty: 608

COUNTRY	N	10	11	12	19	70	71	72	73	76	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY	
															REACH		% Right	% Right	
															ED				
Australia	688	24.9	1.9	13.2	10.5	0.6	2.4	4.5	5.7	0.0	32.5	0.4	3.4	50.4	0.8	2.6	51.8	49.0	
Austria	372	32.1	1.4	6.2	0.0	2.6	4.4	2.9	16.2	18.8	13.1	0.1	2.1	39.8	0.6	1.5	37.5	44.6	
Belgium (Fl)	343	31.8	6.6	8.9	11.8	2.6	2.9	4.1	6.4	8.6	12.3	1.3	2.7	59.1	0.7	2.0	54.7	64.0	
Belgium (Fr)	279	0.0	0.0	0.0	32.7	0.0	0.0	0.0	0.0	0.0	62.6	0.0	4.7	32.7	2.2	2.6	33.1	32.3	
Bulgaria	240	36.2	4.4	6.0	9.4	1.2	0.2	0.8	26.5	3.6	1.7	0.9	9.1	56.0	1.8	7.3	57.2	54.7	
Canada	1024	21.9	1.8	11.2	7.0	2.9	1.7	4.6	8.0	9.6	25.7	0.6	4.9	41.8	1.5	3.5	38.9	45.5	
Colombia	335	8.9	1.0	2.5	6.0	0.2	8.1	4.9	7.9	23.1	10.7	0.0	26.8	18.3	20.9	5.9	16.6	20.0	
Cyprus	338	28.4	1.2	0.5	4.1	0.4	2.6	1.8	24.0	19.9	5.7	0.2	11.2	34.3	2.8	8.4	35.7	33.1	
Czech Republic	418	13.2	6.2	5.5	7.1	1.8	2.5	3.1	14.0	17.4	16.7	0.1	12.4	32.0	6.0	6.3	28.9	35.2	
Denmark	273	9.4	0.3	15.8	1.5	2.0	0.0	6.6	29.3	3.6	17.7	0.0	13.7	27.1	4.6	9.1	22.9	30.8	
England	221	23.7	0.5	19.1	15.7	2.9	3.6	2.3	4.3	6.7	19.7	0.0	1.6	58.9	1.6	0.0	58.5	59.3	
France	375	19.6	6.0	2.1	5.9	2.1	2.2	4.5	13.0	16.8	16.4	0.9	10.5	33.6	2.6	7.8	33.5	35.4	
Germany	351	22.3	5.4	9.0	8.6	2.3	1.7	2.2	12.5	20.0	9.4	0.1	6.4	45.3	0.5	5.9	35.6	55.5	
Greece	484	21.5	4.1	4.2	13.1	2.9	2.0	3.2	11.2	15.8	10.1	1.2	10.6	42.9	3.3	7.4	43.2	42.9	
Hong Kong	428	14.1	0.9	6.0	8.4	2.4	1.3	2.3	36.9	14.1	12.2	0.5	0.9	29.4	0.2	0.7	25.7	32.3	
Hungary	377	43.4	1.7	8.0	3.2	0.5	0.5	0.9	10.7	9.2	7.3	0.2	14.2	56.3	6.4	7.9	48.9	63.5	
Iceland	239	31.9	2.4	6.4	10.9	0.0	3.4	2.1	18.9	5.8	10.8	0.2	7.3	51.5	4.2	3.1	54.2	47.9	
Iran, Islamic Rep.	464	1.6	0.1	4.3	34.1	0.6	0.2	3.7	21.9	5.5	22.7	0.3	4.9	40.1	1.1	3.8	37.6	42.2	
Ireland	410	29.1	1.9	3.4	13.8	4.3	0.7	4.3	4.6	9.4	24.2	0.2	4.1	48.2	1.2	2.9	45.1	52.2	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	36.9	3.2	16.7	0.7	0.2	2.6	3.2	3.3	15.0	17.3	0.0	1.0	57.4	0.7	0.4	52.4	62.0	
Korea	360	51.2	5.7	9.6	8.6	6.0	3.5	2.1	2.3	4.8	2.3	0.0	4.0	75.0	0.5	3.6	72.4	76.8	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	320	26.8	1.9	3.0	3.1	3.7	2.1	2.3	23.0	12.4	8.3	0.3	13.1	34.9	3.3	9.8	30.4	39.4	
Lithuania	310	9.3	1.9	9.9	3.1	1.0	0.5	2.8	24.2	14.6	7.6	0.4	24.7	24.3	6.8	17.9	22.9	25.5	
Netherlands	265	29.7	5.0	8.5	0.6	2.9	3.3	3.7	18.7	11.8	13.2	0.1	2.4	43.9	1.1	1.3	42.3	45.1	
New Zealand	394	16.0	0.9	10.5	25.6	2.0	2.2	3.6	4.9	12.6	18.2	0.1	3.4	53.0	0.5	2.9	53.4	52.6	
Norway	304	27.8	0.8	18.2	0.2	9.4	0.4	5.4	8.3	10.5	13.3	0.5	5.1	47.1	2.4	2.7	40.4	52.5	
Philippines	723	12.3	2.4	4.1	4.6	5.0	1.0	0.1	14.0	34.4	14.7	1.4	6.1	23.4	0.4	5.7	23.6	23.1	
Portugal	427	11.6	2.3	0.8	8.6	2.1	0.7	3.8	9.6	34.3	15.7	0.6	10.0	23.3	3.3	6.7	22.0	24.5	
Romania	471	26.4	2.0	1.5	6.7	0.8	0.6	2.4	33.2	4.0	3.9	0.0	18.6	36.5	5.8	12.8	31.4	41.2	
Russian Federation	515	21.9	2.6	3.3	4.2	0.9	1.0	2.1	15.1	25.0	5.1	0.8	18.1	31.9	7.8	10.4	31.2	32.7	
Scotland	372	42.4	2.9	1.5	6.4	2.0	1.6	4.7	7.1	8.6	19.8	0.0	3.0	53.2	1.6	1.4	54.2	51.9	
Singapore	449	19.6	1.9	9.0	8.7	2.5	3.0	7.7	4.6	12.8	30.0	0.0	0.1	39.2	0.0	0.1	38.3	40.1	
Slovak Republic	440	23.6	3.2	5.6	6.2	4.0	3.3	3.0	20.3	10.3	8.2	0.9	11.5	38.6	3.3	8.2	32.3	44.9	
Slovenia	371	21.3	3.7	9.6	11.1	3.0	4.5	2.9	12.8	16.0	9.8	1.1	4.2	45.7	0.5	3.6	43.1	48.1	
South Africa	613	6.7	0.5	0.2	5.2	1.4	0.8	2.4	27.8	6.7	23.6	1.8	22.9	12.6	5.8	17.1	12.1	13.4	
Spain	453	24.3	3.5	6.9	8.7	1.9	2.9	2.9	8.6	12.9	13.7	0.0	13.5	43.4	6.8	6.7	39.2	47.2	
Sweden	360	10.7	3.4	14.5	7.2	1.2	3.3	5.1	10.5	11.6	29.5	0.0	3.0	35.7	2.0	1.0	35.5	35.8	
Switzerland	519	19.0	3.9	10.0	9.4	3.4	3.7	2.5	11.1	19.6	11.4	0.0	6.1	42.2	3.2	2.9	37.5	47.9	
Thailand	696	16.8	2.3	5.6	14.0	3.9	0.2	3.1	3.6	31.1	16.0	0.6	2.7	38.9	0.5	2.2	35.4	44.7	
United States	482	18.2	2.0	12.9	4.5	5.4	3.5	2.6	7.5	10.4	30.5	0.5	2.0	37.6	0.3	1.7	36.5	38.8	
INTERNATIONAL AVG	.	22.2	2.6	7.4	8.8	2.4	2.1	3.2	13.6	13.2	16.1	0.4	8.2	40.9	3.0	5.2	38.7	43.2	

V1 = % Scoring 1 or better    V2 = % Scoring 2 or better    V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: Q13 KEY: D  
 Compare heat expansion properties of metal and glass. (Physics)  
 Difficulty: 528

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	688	12.1	19.9	12.0	54.8	1.2	54.8	0.0	0.8	0.4	57.6	51.9
Austria	372	13.2	10.6	9.8	65.2	1.3	65.2	0.0	0.6	0.6	65.1	66.0
Belgium (Fl)	343	7.5	6.7	8.8	74.5	2.4	74.5	0.0	0.7	1.7	73.8	75.3
Belgium (Fr)	279	12.3	20.7	16.8	37.7	12.6	37.7	0.0	2.5	10.1	37.1	37.8
Bulgaria	240	9.0	9.1	6.3	67.8	7.7	67.8	0.0	1.8	5.9	71.5	63.5
Canada	1024	11.0	22.0	10.5	54.0	2.5	54.0	0.0	1.7	0.8	55.5	52.7
Colombia	335	16.5	18.1	12.9	22.0	30.5	22.0	0.0	23.1	7.4	21.3	22.3
Cyprus	338	13.4	41.1	17.4	20.0	8.0	20.0	0.0	3.3	4.7	21.6	18.6
Czech Republic	418	3.7	14.9	1.8	68.3	11.4	68.3	0.3	8.1	3.1	69.5	67.0
Denmark	273	14.0	8.0	8.5	58.4	11.1	58.4	0.0	5.9	5.2	58.5	59.8
England	221	10.3	18.8	7.1	61.5	2.3	61.5	0.0	1.6	0.7	61.3	61.6
France	375	13.4	32.8	11.6	34.6	7.7	34.6	0.6	3.2	3.9	36.2	34.4
Germany	356	8.8	8.5	8.3	68.2	6.2	68.2	1.4	0.8	4.0	63.7	74.6
Greece	484	13.6	31.1	15.9	30.1	9.2	30.1	0.3	3.7	5.2	29.0	31.3
Hong Kong	430	4.6	11.5	18.5	64.3	1.1	64.3	0.0	0.7	0.4	65.1	63.6
Hungary	377	6.1	4.7	6.9	69.9	12.4	69.9	0.0	7.5	4.9	70.0	69.8
Iceland	239	7.5	13.0	13.5	56.8	9.1	56.8	0.0	4.4	4.7	56.4	57.3
Iran, Islamic Rep.	464	18.0	21.9	18.4	35.5	6.3	35.5	0.0	1.3	4.9	36.8	34.1
Ireland	410	12.2	24.2	12.9	46.9	3.8	46.9	0.0	2.1	1.7	45.6	48.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	11.2	19.8	19.5	48.7	0.8	48.7	0.0	0.7	0.2	51.6	46.0
Korea	360	10.6	17.2	28.6	41.9	1.6	41.9	0.0	1.0	0.6	46.2	38.9
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	320	6.3	15.4	8.6	59.6	10.2	59.6	0.0	5.0	5.2	61.3	57.9
Lithuania	310	7.6	8.5	9.2	54.7	20.0	54.7	0.3	9.1	10.6	61.7	48.0
Netherlands	265	4.8	9.1	10.7	73.6	1.8	73.6	0.0	1.1	0.7	72.5	74.6
New Zealand	394	10.8	26.0	13.7	47.3	2.3	47.3	0.0	0.7	1.5	48.5	46.4
Norway	304	22.0	6.0	4.0	62.2	5.8	62.2	0.0	2.6	3.2	65.8	59.2
Philippines	723	9.0	13.0	44.4	31.4	2.2	31.4	0.0	1.1	1.1	31.0	31.8
Portugal	427	15.2	28.3	16.5	26.9	13.1	26.9	0.0	5.6	7.5	22.7	31.1
Romania	467	10.6	16.0	11.5	45.5	16.4	45.5	0.9	8.0	7.5	40.0	50.5
Russian Federation	515	8.2	8.0	9.9	58.4	15.5	58.4	0.4	9.3	5.8	59.3	57.4
Scotland	372	8.0	17.8	8.8	63.1	2.2	63.1	0.0	1.6	0.6	63.2	62.7
Singapore	449	3.9	9.0	11.7	75.4	0.0	75.4	0.0	0.0	0.0	73.6	76.9
Slovak Republic	440	3.1	26.3	5.0	53.0	12.6	53.0	0.0	3.9	8.7	54.2	51.8
Slovenia	371	5.0	27.6	8.5	55.1	3.8	55.1	0.2	0.5	3.0	58.2	52.2
South Africa	613	21.0	20.3	21.3	26.0	11.4	26.0	0.3	7.4	3.7	25.7	26.8
Spain	453	9.1	19.7	17.9	38.1	15.1	38.1	0.0	8.6	6.6	34.4	41.4
Sweden	360	5.1	4.8	11.9	74.0	4.2	74.0	0.0	2.5	1.7	71.5	75.9
Switzerland	519	8.8	11.7	9.4	62.7	7.3	62.7	0.0	3.5	3.8	59.4	66.5
Thailand	696	10.2	17.0	18.1	53.1	1.5	53.1	0.0	1.0	0.5	52.1	54.2
United States	482	11.9	23.1	10.2	53.0	1.9	53.0	0.0	0.3	1.5	58.4	46.8
INTERNATIONAL AVG	.	10.2	17.1	12.9	52.4	7.4	52.4	0.1	3.7	3.6	52.7	52.2

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: Q14 KEY: E  
 Identify type of substance formed by heating a mixture of two elemental powders. (Chemistry)  
 Difficulty: 613

COUNTRY	N	A	B	C	D	E	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	688	11.8	7.0	30.8	13.3	33.4	3.7	33.4	0.0	0.9	2.8	36.8	29.9
Austria	372	13.8	9.7	19.4	13.6	40.3	3.2	40.3	0.0	0.6	2.6	38.4	41.2
Belgium (Fl)	343	30.1	6.2	31.6	11.8	14.1	6.3	14.1	0.0	1.0	5.3	16.8	11.2
Belgium (Fr)	279	11.7	7.5	7.8	29.1	21.8	22.1	21.8	0.0	4.5	17.6	24.0	19.0
Bulgaria	240	3.1	4.0	7.3	28.3	52.5	4.8	52.5	0.3	3.3	1.3	56.0	48.5
Canada	1024	15.0	6.5	23.9	21.3	30.2	3.2	30.2	0.0	1.9	1.3	32.4	27.7
Colombia	335	8.0	4.0	8.4	3.7	46.3	29.8	46.3	0.4	26.5	2.8	49.8	43.0
Cyprus	338	5.4	5.5	22.2	9.7	50.3	6.9	50.3	0.3	4.3	2.3	55.5	45.6
Czech Republic	418	3.8	10.7	7.7	20.1	44.9	12.9	44.9	0.0	10.0	2.8	43.5	46.3
Denmark	273	19.2	8.9	15.1	5.4	28.1	23.3	28.1	0.0	9.1	14.1	23.2	33.6
England	221	15.8	3.5	28.5	11.6	37.6	3.0	37.6	0.0	1.6	1.4	33.9	40.4
France	375	10.4	6.1	11.1	35.5	23.4	13.5	23.4	0.2	4.2	9.0	26.9	20.9
Germany	356	19.2	8.8	18.7	10.9	22.1	20.3	22.1	0.5	2.2	17.7	19.7	25.2
Greece	484	6.9	5.3	5.9	22.9	50.5	8.4	50.5	0.1	5.0	3.3	54.2	47.1
Hong Kong	430	13.2	5.8	11.8	19.6	48.0	1.6	48.0	0.0	0.9	0.7	48.9	47.2
Hungary	377	3.6	5.1	12.2	15.8	48.4	14.8	48.4	0.0	9.6	5.2	44.0	52.7
Iceland	239	5.8	8.8	11.7	31.1	31.8	10.9	31.8	0.0	7.0	3.9	32.5	30.7
Iran, Islamic Rep.	464	6.6	8.7	5.4	15.4	56.0	7.9	56.0	0.0	4.8	3.1	62.1	52.3
Ireland	410	13.9	6.3	21.5	7.2	46.5	4.5	46.5	0.3	2.8	1.5	50.3	41.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	7.9	9.4	11.4	23.8	45.9	1.5	45.9	0.0	0.7	0.8	44.6	47.1
Korea	360	10.0	25.1	8.6	14.0	39.6	2.6	39.6	0.0	1.6	1.1	47.2	34.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	320	2.6	3.5	7.3	25.4	48.0	13.2	48.0	0.0	5.3	7.9	46.3	49.8
Lithuania	310	6.8	2.4	16.2	22.1	16.1	36.4	16.1	0.6	11.6	24.1	17.1	15.2
Netherlands	265	29.8	11.2	24.6	10.3	17.0	7.2	17.0	0.0	1.1	6.1	14.3	19.9
New Zealand	394	19.6	10.7	25.2	16.0	24.9	3.7	24.9	0.0	1.8	1.9	22.0	27.2
Norway	304	20.1	11.1	5.5	7.1	47.2	9.0	47.2	0.0	4.2	4.8	57.6	38.5
Philippines	723	20.6	28.6	18.5	6.5	23.2	2.5	23.2	0.0	1.4	1.1	24.4	21.9
Portugal	426	27.5	9.2	21.3	12.4	16.8	12.7	16.8	0.0	7.5	5.2	15.0	18.7
Romania	467	17.7	4.4	16.2	21.6	22.6	17.4	22.6	1.9	10.6	4.9	21.9	23.3
Russian Federation	515	9.6	4.3	12.9	24.6	28.1	20.6	28.1	0.2	11.0	9.4	27.5	28.6
Scotland	372	7.6	4.0	36.8	7.5	41.5	2.7	41.5	0.2	2.0	0.5	38.9	44.4
Singapore	449	10.4	5.7	13.2	8.9	61.6	0.2	61.6	0.0	0.0	0.2	62.5	60.9
Slovak Republic	440	3.9	9.6	8.0	31.7	35.9	10.8	35.9	0.6	6.1	4.0	30.8	41.0
Slovenia	371	4.8	4.2	8.4	9.5	70.1	3.0	70.1	0.2	0.8	1.9	77.2	63.6
South Africa	613	9.6	15.9	39.6	9.6	14.4	10.9	14.4	0.0	9.1	1.8	15.5	13.7
Spain	453	6.3	2.5	15.0	11.6	50.3	14.4	50.3	0.0	10.5	3.9	46.1	54.0
Sweden	360	24.3	5.2	16.3	34.8	13.8	5.6	13.8	0.3	3.5	1.7	9.5	16.9
Switzerland	519	21.1	13.6	17.2	12.1	25.3	10.6	25.3	0.2	5.8	4.6	28.9	21.1
Thailand	696	7.4	3.3	10.4	50.5	27.2	1.3	27.2	0.0	1.0	0.3	25.7	28.7
United States	482	12.1	7.5	21.2	8.9	48.1	2.1	48.1	0.0	0.9	1.2	53.3	42.3
INTERNATIONAL AVG	.	12.4	8.0	16.4	17.4	36.1	9.7	36.1	0.2	4.9	4.6	36.9	35.4

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: Q15 KEY: A  
 Determine physical processes involving chemical change. (Chemistry)  
 Difficulty: 693

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	688	36.7	20.9	16.2	24.0	2.2	36.7	0.0	0.9	1.3	39.2	34.2
Austria	372	28.5	10.1	7.3	52.7	1.4	28.5	0.0	0.6	0.8	26.1	31.5
Belgium (Fl)	343	24.6	20.1	15.4	35.5	4.3	24.6	0.0	1.3	3.1	22.2	27.2
Belgium (Fr)	279	10.8	19.5	10.9	50.6	8.1	10.8	0.0	5.4	2.7	8.5	13.6
Bulgaria	240	32.7	15.3	10.3	35.5	6.2	32.7	1.4	3.3	1.5	32.5	32.9
Canada	1024	36.6	16.9	10.5	33.3	2.7	36.6	0.1	2.1	0.5	37.4	36.3
Colombia	335	17.4	11.3	12.5	28.4	30.4	17.4	0.5	27.3	2.7	18.8	16.2
Cyprus	.	.	.	.	.	.	.	.	.	.	.	.
Czech Republic	418	31.3	10.2	6.0	40.9	11.6	31.3	0.1	10.3	1.1	33.1	29.3
Denmark	273	31.1	16.9	11.9	25.0	15.1	31.1	0.0	9.8	5.3	28.9	31.1
England	221	37.2	13.5	13.2	34.0	2.0	37.2	0.0	2.0	0.0	31.4	41.6
France	375	20.6	18.1	11.9	39.0	10.4	20.6	1.7	4.5	4.1	20.9	19.8
Germany	356	21.2	10.9	7.6	54.4	5.9	21.2	0.9	2.4	2.7	19.3	22.5
Greece	484	21.1	20.5	7.1	43.0	8.3	21.1	0.8	5.0	2.5	17.4	24.4
Hong Kong	430	24.1	18.0	27.6	28.1	2.3	24.1	0.0	1.1	1.1	23.8	24.3
Hungary	377	17.0	15.0	2.3	51.6	14.1	17.0	0.0	10.6	3.4	14.7	19.3
Iceland	239	21.0	18.3	9.5	41.6	9.5	21.0	0.7	7.0	1.8	21.4	20.5
Iran, Islamic Rep.	465	46.3	21.0	8.4	18.0	6.3	46.3	0.3	4.9	1.1	40.6	50.1
Ireland	410	35.0	19.0	12.2	30.7	3.0	35.0	0.0	2.8	0.3	34.2	36.1
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	19.2	21.1	14.7	43.7	1.3	19.2	0.4	0.8	0.2	16.8	21.3
Korea	360	23.7	28.8	12.1	33.3	2.1	23.7	0.0	1.9	0.2	22.5	24.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	320	15.4	14.6	14.5	41.5	14.0	15.4	0.0	5.5	8.5	12.9	18.0
Lithuania	310	9.7	6.9	6.1	42.8	34.5	9.7	0.2	15.6	18.7	7.7	11.5
Netherlands	265	31.0	18.5	15.0	32.8	2.7	31.0	0.0	1.1	1.6	29.6	32.6
New Zealand	394	33.5	16.2	21.3	26.8	2.2	33.5	0.2	1.8	0.2	35.7	31.7
Norway	304	6.4	25.6	7.2	52.2	8.6	6.4	0.0	5.2	3.4	3.3	9.0
Philippines	723	36.1	14.8	13.7	32.8	2.6	36.1	0.0	1.7	1.0	36.4	35.7
Portugal	427	19.8	22.8	11.5	33.1	12.7	19.8	0.0	7.5	5.2	18.0	21.7
Romania	466	25.2	9.9	5.0	38.1	21.9	25.2	6.5	11.4	4.0	25.7	24.7
Russian Federation	515	15.0	15.4	7.1	39.8	22.7	15.0	0.7	11.9	10.1	12.3	18.0
Scotland	372	24.1	24.7	10.7	38.0	2.5	24.1	0.3	2.0	0.3	16.0	32.6
Singapore	449	61.7	12.6	5.2	20.2	0.2	61.7	0.0	0.0	0.2	64.3	59.3
Slovak Republic	440	31.1	9.7	6.2	41.4	11.6	31.1	1.4	6.5	3.6	24.8	37.4
Slovenia	371	28.1	16.8	8.3	42.2	4.5	28.1	1.6	0.8	2.1	25.1	30.9
South Africa	613	20.9	20.3	17.1	31.4	10.3	20.9	0.0	9.1	1.2	20.0	22.2
Spain	453	12.8	14.8	13.0	43.5	15.8	12.8	0.0	10.7	5.1	14.0	11.7
Sweden	360	15.9	16.7	21.4	40.5	5.5	15.9	0.3	3.5	1.6	14.1	17.2
Switzerland	519	18.6	20.1	10.2	42.7	8.3	18.6	0.3	5.8	2.2	16.3	21.4
Thailand	696	22.9	18.0	14.0	43.6	1.5	22.9	0.0	1.0	0.5	25.3	19.5
United States	482	39.7	14.3	14.0	30.2	1.7	39.7	0.0	1.1	0.7	40.4	38.9
INTERNATIONAL AVG	.	25.7	16.9	11.5	37.4	8.5	25.7	0.5	5.3	2.7	24.4	26.9

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: Q16 KEY: D  
 Estimate time for light from star to reach Earth. (Earth Science)  
 Difficulty: 740

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1.GIRL % Right	2.BOY % Right
Australia	688	34.4	19.3	8.3	35.4	2.7	35.4	0.0	0.9	1.7	29.4	41.6
Austria	372	49.4	15.2	7.5	24.8	3.0	24.8	0.0	0.6	2.4	20.9	27.0
Belgium (Fl)	343	33.4	16.3	12.5	32.9	4.9	32.9	0.0	1.3	3.6	22.5	44.4
Belgium (Fr)	279	48.5	15.6	5.1	19.0	11.8	19.0	0.0	5.4	6.4	17.3	21.4
Bulgaria	240	37.7	22.8	7.2	22.6	9.7	22.6	0.0	3.6	6.1	26.1	18.6
Canada	1024	37.2	15.6	12.5	32.0	2.7	32.0	0.1	2.2	0.5	30.1	34.0
Colombia	335	31.7	16.4	10.5	12.4	29.0	12.4	0.0	27.6	1.4	12.6	12.0
Cyprus	338	49.0	22.0	8.7	14.2	6.1	14.2	0.2	4.3	1.7	16.6	12.1
Czech Republic	418	29.5	22.6	7.0	26.9	13.9	26.9	0.1	10.5	3.3	22.1	32.0
Denmark	273	31.4	17.4	12.7	24.3	14.2	24.3	0.0	9.8	4.4	20.9	28.4
England	221	34.9	16.0	10.6	36.4	2.0	36.4	0.0	2.0	0.0	29.8	41.4
France	375	50.2	18.1	7.3	14.7	9.8	14.7	0.2	4.7	4.9	13.0	17.0
Germany	356	49.0	18.4	8.9	14.1	9.6	14.1	0.2	2.4	7.0	12.4	15.8
Greece	.	.	.	.	.	.	.	.	.	.	.	.
Hong Kong	430	31.6	19.2	23.0	24.7	1.6	24.7	0.0	1.1	0.4	17.9	30.2
Hungary	377	50.7	16.7	6.4	9.4	16.8	9.4	0.0	11.6	5.2	8.4	10.3
Iceland	239	41.8	17.5	11.5	19.2	10.1	19.2	0.0	7.0	3.1	17.2	21.7
Iran, Islamic Rep.	465	44.3	23.1	11.1	13.0	8.5	13.0	0.0	5.8	2.8	19.5	8.2
Ireland	410	40.0	16.6	10.5	28.7	4.1	28.7	0.2	2.8	1.1	26.1	32.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	31.1	19.8	17.4	30.8	0.9	30.8	0.0	0.8	0.1	30.5	31.0
Korea	360	53.2	19.0	12.6	12.3	2.8	12.3	0.0	1.9	1.0	13.2	11.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	320	37.0	22.6	9.9	18.2	12.3	18.2	0.0	6.2	6.1	16.2	20.2
Lithuania	310	24.1	26.5	7.7	14.6	27.1	14.6	0.3	17.2	9.7	11.0	18.2
Netherlands	265	35.0	17.1	12.7	28.2	7.0	28.2	0.0	1.1	5.9	27.3	29.2
New Zealand	394	35.7	16.5	12.7	33.0	2.0	33.0	0.0	2.0	0.0	31.2	34.6
Norway	304	43.3	15.7	7.8	26.6	6.7	26.6	0.0	5.2	1.6	17.6	34.0
Philippines	723	22.5	20.7	20.9	33.1	2.8	33.1	0.0	1.8	1.0	32.6	33.6
Portugal	427	25.7	26.9	13.6	23.2	10.7	23.2	0.0	7.7	3.1	22.1	24.3
Romania	469	42.6	19.3	6.6	14.2	17.2	14.2	0.8	11.5	4.9	15.6	13.0
Russian Federation	515	34.3	20.4	8.1	18.6	18.6	18.6	0.2	12.9	5.5	18.5	18.6
Scotland	372	35.8	20.7	11.2	29.2	3.1	29.2	0.2	2.3	0.6	24.6	34.1
Singapore	449	48.2	15.4	15.1	20.4	0.9	20.4	0.0	0.0	0.9	22.9	18.1
Slovak Republic	440	36.9	15.5	5.7	30.0	11.9	30.0	0.0	7.1	4.8	30.3	29.6
Slovenia	368	48.1	15.8	8.5	23.0	4.5	23.0	0.0	2.0	2.5	22.2	23.8
South Africa	613	18.0	31.1	14.7	25.8	10.4	25.8	0.0	9.2	1.2	26.8	25.0
Spain	453	37.7	13.9	6.6	26.2	15.6	26.2	0.0	12.4	3.2	21.7	30.1
Sweden	360	37.0	18.2	10.9	28.7	5.3	28.7	0.3	3.5	1.4	21.5	33.9
Switzerland	519	45.0	17.1	9.6	19.3	9.0	19.3	0.4	6.1	2.5	16.9	22.2
Thailand	.	.	.	.	.	.	.	.	.	.	.	.
United States	482	38.0	16.2	10.8	33.0	2.0	33.0	0.0	1.1	1.0	27.9	38.7
INTERNATIONAL AVG	.	38.3	18.9	10.6	23.5	8.7	23.5	0.1	5.7	3.0	21.4	25.6

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent



Item: Q17  
 Describe the advantage of having two eyes. (Life Science)  
 Difficulty: 493

COUNTRY	N	NOT REACH ED										OMIT	1. GIRL % Right	2. BOY % Right	
		10	11	12	19	70	71	79	90	99	V1				
Australia	688	7.5	65.3	2.4	0.3	5.2	0.5	9.6	2.6	6.4	75.6	1.4	5.0	79.9	71.2
Austria	372	5.7	39.1	0.2	0.0	12.8	2.1	28.8	3.8	7.4	45.0	0.9	6.5	43.5	48.6
Belgium (Fl)	343	11.8	64.6	1.9	2.3	6.8	0.0	7.4	0.9	4.3	80.5	1.6	2.7	80.4	80.6
Belgium (Fr)	279	0.0	0.0	0.0	58.2	0.0	0.0	27.4	0.0	14.4	58.2	6.0	8.4	53.4	64.0
Bulgaria	240	15.6	31.3	0.7	7.7	7.5	3.6	7.0	1.1	25.5	55.3	6.5	19.0	57.1	53.2
Canada	1024	9.8	48.5	4.8	4.5	5.8	0.7	17.1	0.8	8.0	67.7	2.5	5.4	66.3	68.9
Colombia	335	1.8	42.1	0.5	1.6	0.5	1.2	9.0	1.5	41.7	46.1	29.0	12.8	50.7	41.2
Cyprus	338	0.7	45.9	7.4	2.9	5.8	0.0	9.1	0.4	27.9	56.8	4.6	23.3	58.4	55.4
Czech Republic	418	8.0	43.3	6.8	8.5	1.9	0.7	12.4	0.1	18.3	66.6	12.3	5.9	64.6	68.7
Denmark	273	8.4	46.1	1.3	2.7	4.6	1.3	12.3	2.4	21.0	58.4	10.2	10.8	62.5	56.3
England	221	7.9	61.2	3.8	6.1	3.6	0.4	10.3	0.4	6.4	79.0	2.0	4.4	78.2	79.6
France	375	3.3	56.4	2.4	2.6	6.0	0.8	11.2	1.2	15.9	64.8	6.0	9.9	66.7	64.8
Germany	352	6.0	37.0	0.4	0.9	8.6	2.1	13.3	2.5	29.3	44.3	4.8	24.4	42.9	45.0
Greece	484	8.8	38.2	3.7	13.0	3.1	2.7	8.0	1.5	21.2	63.6	6.3	14.9	61.9	64.8
Hong Kong	429	3.0	39.0	0.2	0.4	0.5	3.4	40.3	0.4	12.7	42.7	1.1	11.6	39.7	45.1
Hungary	377	6.0	53.2	2.0	4.2	2.5	3.6	5.0	0.7	22.9	65.4	13.7	9.2	65.7	65.2
Iceland	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Iran, Islamic Rep.	465	0.3	9.5	0.0	21.6	1.9	1.1	44.3	1.7	19.7	31.4	6.2	13.5	25.6	36.0
Ireland	410	1.6	64.1	5.6	11.0	2.8	0.6	6.9	0.5	7.0	82.3	3.0	4.0	82.2	82.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	17.9	36.3	0.5	2.2	1.0	7.5	24.8	1.7	8.1	56.9	0.9	7.2	55.3	58.3
Korea	360	11.9	30.8	0.7	17.5	12.1	1.3	16.9	0.0	8.9	60.8	2.8	6.1	56.7	63.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	320	6.6	29.9	1.7	5.7	9.5	1.6	7.3	2.2	35.4	44.0	9.2	26.2	44.3	43.6
Lithuania	310	1.3	32.7	0.9	0.3	2.9	1.1	18.5	0.6	41.7	35.1	18.9	22.8	35.4	34.9
Netherlands	265	11.0	70.7	0.5	0.1	3.4	0.0	8.2	1.5	4.6	82.3	1.1	3.5	83.2	81.3
New Zealand	394	2.4	66.0	1.9	4.2	3.8	1.3	11.4	0.5	8.6	74.5	2.0	6.6	76.1	73.1
Norway	304	6.2	63.7	5.6	0.5	2.2	0.0	10.3	0.9	10.6	76.0	5.2	5.5	82.1	70.9
Philippines	723	4.4	5.7	5.0	7.9	4.3	4.6	35.1	3.5	29.6	23.0	2.5	27.1	22.8	23.1
Portugal	427	1.8	51.1	3.0	3.8	15.1	1.2	7.8	1.3	14.8	59.8	8.4	6.4	65.6	53.9
Romania	470	3.1	15.0	0.7	1.7	7.6	1.2	22.0	0.8	48.0	20.5	14.2	33.8	17.2	23.5
Russian Federation	515	2.3	31.6	0.8	4.1	5.5	1.7	5.9	4.1	43.9	38.9	15.7	28.2	37.3	40.6
Scotland	372	2.7	43.0	4.6	6.0	6.8	0.6	28.7	0.8	6.7	56.3	2.3	4.4	51.7	60.8
Singapore	449	1.2	39.7	5.0	36.7	7.7	1.1	5.0	0.0	3.7	82.5	0.5	3.2	80.9	84.0
Slovak Republic	440	2.9	47.0	2.0	6.2	4.8	0.9	10.3	1.2	24.6	58.1	8.9	15.7	52.4	63.8
Slovenia	368	10.0	30.5	3.3	9.8	15.2	1.3	16.0	1.5	12.4	53.7	3.1	9.3	55.2	52.3
South Africa	613	4.3	7.8	0.8	9.0	3.6	0.7	16.9	0.8	56.1	21.9	10.1	46.0	23.2	21.0
Spain	453	4.9	45.4	3.4	5.0	3.8	1.0	8.7	1.1	26.7	58.7	13.2	13.5	54.0	62.9
Sweden	360	5.4	53.5	3.5	0.2	2.6	1.3	19.5	2.7	11.2	62.6	4.0	7.2	66.1	60.0
Switzerland	519	4.4	43.3	1.0	6.9	10.2	2.6	12.9	0.9	17.9	55.6	7.8	10.1	51.9	59.9
Thailand	696	52.5	31.0	0.6	4.2	0.7	1.1	1.4	0.5	8.0	88.3	1.5	6.6	88.6	87.7
United States	482	1.8	47.7	5.1	0.6	3.4	0.0	32.9	1.2	7.4	55.2	1.1	6.3	58.6	51.3
INTERNATIONAL AVG	.	6.8	41.2	2.4	7.2	5.3	1.5	15.4	1.3	18.9	57.6	6.5	12.5	57.4	58.0

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: Q18  
 Explain effect of melting on the mass of ice cubes. (Physics)  
 Difficulty: 665

COUNTRY	N	20	10	11	70	71	72	73	79	90	99	V1	V2	NOT	OMIT	1.GIRL	2.BOY	
														REACH		% Right	% Right	
														ED				
Australia	688	42.8	3.5	2.4	13.5	2.0	9.0	0.2	7.5	4.2	15.0	48.6	42.8	5.2	9.8	44.8	40.6	
Austria	372	22.9	5.5	3.7	21.5	7.0	15.4	2.4	4.7	2.4	14.5	32.1	22.9	3.4	11.0	21.9	23.3	
Belgium (Fl)	343	26.4	3.8	3.6	22.2	1.9	10.1	1.4	10.5	1.1	18.9	33.9	26.4	3.4	15.5	24.7	28.3	
Belgium (Fr)	279	24.9	13.2	0.0	0.0	0.0	0.0	0.0	28.2	0.0	33.7	38.1	24.9	10.2	23.5	26.0	24.4	
Bulgaria	240	28.3	2.7	5.7	10.1	5.9	3.5	1.4	2.3	2.3	37.8	36.7	28.3	20.9	16.8	31.3	24.9	
Canada	1024	37.1	4.2	1.7	10.2	2.2	11.9	1.1	8.2	4.3	19.2	43.0	37.1	6.5	12.7	36.9	37.6	
Colombia	335	7.1	0.6	3.2	5.1	0.6	5.1	0.9	11.8	0.0	65.5	10.9	7.1	39.1	26.4	8.6	5.2	
Cyprus	338	32.1	1.0	2.8	12.2	1.1	8.1	1.6	8.9	0.8	31.4	35.9	32.1	20.5	10.8	27.2	36.4	
Czech Republic	418	33.2	3.3	8.1	12.1	1.9	5.9	2.0	4.4	0.4	28.9	44.5	33.2	16.0	12.9	32.6	33.8	
Denmark	273	27.9	8.6	11.1	4.5	5.1	6.9	2.7	1.2	0.2	31.8	47.6	27.9	15.5	16.3	23.3	33.1	
England	221	32.1	4.7	2.2	23.5	0.6	15.4	1.6	4.9	1.8	13.3	39.0	32.1	4.3	8.9	22.8	39.1	
France	375	29.1	2.0	7.1	8.4	0.7	4.0	0.6	12.1	2.4	33.7	38.2	29.1	11.9	21.8	27.7	32.1	
Germany	352	20.5	1.3	4.3	16.5	6.0	7.4	0.7	4.4	0.7	38.1	26.1	20.5	19.1	18.9	17.7	24.2	
Greece	482	8.5	2.9	0.9	19.0	3.4	13.9	3.1	10.5	4.2	33.6	12.3	8.5	16.2	17.4	6.0	10.6	
Hong Kong	425	18.0	7.2	2.6	22.2	3.5	14.9	2.4	3.7	3.7	21.8	27.8	18.0	8.5	13.2	18.0	18.0	
Hungary	377	27.3	2.5	1.0	16.3	3.4	4.0	0.8	3.8	0.2	40.7	30.8	27.3	20.9	19.7	25.4	29.2	
Iceland	239	22.8	4.3	3.8	7.1	4.4	6.9	1.7	8.8	7.7	32.4	30.9	22.8	15.7	16.7	22.2	23.7	
Iran, Islamic Rep.	464	16.0	14.9	2.0	5.7	2.5	8.5	2.8	19.9	0.4	27.1	33.0	16.0	13.6	13.5	8.9	21.4	
Ireland	410	23.8	3.1	0.9	21.1	1.6	15.1	0.4	9.2	2.0	22.8	27.7	23.8	6.2	16.6	20.9	27.4	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	54.8	3.0	2.5	15.9	1.6	9.6	0.7	5.9	0.4	5.6	60.3	54.8	3.1	2.5	54.1	55.4	
Korea	360	42.5	6.1	1.1	9.0	1.2	12.7	1.6	12.7	0.0	13.1	49.7	42.5	7.5	5.6	44.2	41.2	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	320	18.9	5.6	6.3	14.4	5.1	7.5	3.2	1.5	3.0	34.6	30.7	18.9	24.3	10.2	20.0	17.7	
Lithuania	310	9.5	1.0	6.8	10.9	2.9	2.2	0.7	8.3	1.3	56.3	17.3	9.5	36.7	19.6	10.6	8.5	
Netherlands	265	27.1	1.0	2.9	20.3	7.1	12.2	3.5	6.4	6.7	12.8	31.0	27.1	2.7	10.1	26.6	27.1	
New Zealand	394	18.2	7.4	1.6	18.8	1.8	12.9	0.5	10.5	0.7	27.6	27.2	18.2	7.5	20.1	17.5	18.8	
Norway	304	32.8	3.5	3.9	19.9	2.2	16.1	2.0	1.9	4.0	13.7	40.1	32.8	8.4	5.4	38.8	27.8	
Philippines	723	9.8	1.9	0.8	4.7	1.4	4.8	1.5	22.3	8.0	44.7	12.6	9.8	25.6	19.1	10.3	9.3	
Portugal	427	6.2	1.6	2.2	8.3	3.2	5.5	0.1	20.1	4.7	48.0	10.0	6.2	13.9	34.1	4.6	7.9	
Romania	470	13.4	3.2	7.7	9.0	5.1	4.2	2.2	5.0	0.9	49.3	24.3	13.4	36.2	13.1	9.4	17.1	
Russian Federation	515	15.5	2.2	9.9	11.7	4.3	4.1	2.2	5.4	2.2	42.4	27.6	15.5	31.8	10.7	17.4	13.4	
Scotland	372	22.5	2.9	0.7	24.1	1.8	18.8	1.1	9.9	1.8	16.3	26.2	22.5	5.0	11.4	20.4	24.9	
Singapore	449	44.1	4.1	0.4	19.9	0.3	17.2	0.3	6.6	0.5	6.7	48.6	44.1	1.7	4.9	45.9	42.5	
Slovak Republic	438	22.8	8.1	8.9	9.9	3.8	5.2	2.9	3.5	0.9	33.9	39.8	22.8	19.0	15.0	17.4	28.1	
Slovenia	368	31.6	5.4	7.3	13.6	2.8	7.3	1.6	7.1	1.6	21.7	44.3	31.6	7.8	13.9	32.4	30.9	
South Africa	613	6.1	1.2	2.0	2.5	3.1	4.8	1.9	19.9	1.6	56.9	9.3	6.1	48.1	8.8	5.1	7.4	
Spain	453	17.2	2.9	1.7	13.7	1.9	7.7	3.3	9.8	0.0	41.7	21.8	17.2	21.6	20.1	15.9	18.4	
Sweden	359	19.1	5.8	3.9	9.4	4.6	7.2	2.3	13.4	14.2	20.0	28.8	19.1	7.7	12.3	17.5	20.4	
Switzerland	519	24.0	2.5	3.0	16.5	2.9	10.0	1.0	5.5	3.3	31.3	29.5	24.0	13.7	17.6	23.7	24.4	
Thailand	696	22.1	1.9	2.7	23.3	3.1	16.9	1.7	6.8	0.3	21.3	26.7	22.1	7.0	14.3	23.2	20.8	
United States	482	23.8	3.3	2.4	23.6	2.0	14.0	0.7	9.5	5.7	15.0	29.5	23.8	4.4	10.6	27.8	19.3	
INTERNATIONAL AVG	.	24.1	4.1	3.6	13.8	2.9	9.2	1.6	8.9	2.5	29.3	31.8	24.1	14.8	14.6	23.2	24.9	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: R01 KEY: A  
 Choose diagram showing angle of reflected light. (Physics)  
 Difficulty: 468

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	OMIT	1.GIRL % Right	2.BOY % Right
Australia	687	70.5	8.8	10.0	9.2	1.4	70.5	0.0	1.4	66.4	74.8
Austria	373	59.9	14.1	10.4	10.7	4.8	59.9	0.0	4.8	62.4	57.2
Belgium (Fl)	342	74.9	8.3	7.8	7.8	1.2	74.9	0.0	1.2	72.0	78.0
Belgium (Fr)	280	63.5	12.4	8.4	9.7	5.9	63.5	0.0	5.9	57.4	70.9
Bulgaria	240	89.9	1.6	3.3	4.4	0.9	89.9	0.5	0.4	91.7	87.7
Canada	1030	69.8	13.2	8.7	7.3	1.0	69.8	0.1	0.9	67.5	72.6
Colombia	333	45.2	11.4	24.1	13.0	6.3	45.2	0.0	6.3	39.9	50.0
Cyprus	337	54.1	14.6	16.7	10.4	4.1	54.1	0.0	4.1	50.5	57.4
Czech Republic	417	79.6	7.1	6.2	5.9	1.2	79.6	0.0	1.2	79.3	79.9
Denmark	269	52.7	18.2	10.4	13.1	5.7	52.7	0.0	5.7	51.3	54.9
England	221	79.3	5.5	5.9	9.3	0.0	79.3	0.0	0.0	82.9	76.5
France	371	67.5	10.2	12.7	7.9	1.7	67.5	0.4	1.3	67.5	68.2
Germany	356	71.1	5.6	7.6	8.9	6.7	71.1	0.2	6.5	67.7	76.3
Greece	484	69.5	9.3	12.3	7.7	1.3	69.5	0.0	1.3	70.0	69.4
Hong Kong	427	73.6	8.0	7.8	7.6	3.0	73.6	0.0	3.0	75.2	72.2
Hungary	377	62.8	15.8	9.7	9.9	1.8	62.8	0.0	1.8	57.9	67.5
Iceland	237	58.0	15.1	8.9	11.8	6.1	58.0	0.0	6.1	59.0	56.7
Iran, Islamic Rep.	465	60.9	14.5	12.8	9.6	2.2	60.9	0.3	1.9	58.1	62.9
Ireland	408	60.1	14.8	12.3	11.3	1.5	60.1	0.0	1.5	60.5	59.7
Israel	.	.	.	.	.	.	.	.	.	.	.
Japan	638	90.8	0.7	3.3	4.8	0.4	90.8	0.0	0.4	91.6	90.0
Korea	360	81.9	2.9	5.8	9.4	0.0	81.9	0.0	0.0	82.6	81.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	47.4	15.3	19.9	10.8	6.6	47.4	0.0	6.6	39.2	55.8
Lithuania	312	47.1	13.0	14.9	10.4	14.6	47.1	0.4	14.2	44.4	49.6
Netherlands	265	62.3	13.3	12.2	10.6	1.5	62.3	0.0	1.5	53.8	70.6
New Zealand	394	70.5	10.7	10.5	7.9	0.3	70.5	0.0	0.3	74.5	67.3
Norway	304	59.1	19.7	12.4	5.1	3.7	59.1	0.0	3.7	56.9	60.9
Philippines	721	66.6	18.3	7.6	7.1	0.4	66.6	0.0	0.4	65.9	67.4
Portugal	426	49.1	15.9	23.0	8.6	3.4	49.1	0.0	3.4	53.1	45.0
Romania	470	61.5	12.8	12.6	6.3	6.9	61.5	1.0	5.8	60.5	62.4
Russian Federation	514	69.0	8.6	9.3	9.8	3.3	69.0	0.0	3.3	70.4	67.5
Scotland	370	71.3	8.2	10.0	9.7	0.8	71.3	0.5	0.3	70.8	72.3
Singapore	449	72.3	6.1	4.9	16.3	0.4	72.3	0.0	0.4	74.0	70.7
Slovak Republic	439	81.2	6.3	5.3	5.7	1.5	81.2	0.2	1.3	80.3	82.1
Slovenia	371	63.0	11.6	13.6	10.1	1.8	63.0	0.0	1.8	65.1	61.0
South Africa	610	40.9	21.7	19.1	7.7	10.7	40.9	0.0	10.7	39.7	42.5
Spain	451	69.5	10.3	11.4	6.8	2.0	69.5	0.0	2.0	69.3	69.6
Sweden	362	57.3	17.2	12.0	10.8	2.6	57.3	0.2	2.4	51.8	61.4
Switzerland	518	61.4	12.1	8.0	15.8	2.6	61.4	0.0	2.6	57.4	66.1
Thailand	696	74.7	7.1	7.0	10.6	0.6	74.7	0.0	0.6	77.9	70.4
United States	480	63.6	13.8	6.4	14.7	1.5	63.6	0.2	1.3	62.5	64.8
INTERNATIONAL AVG	.	65.6	11.4	10.6	9.4	3.1	65.6	0.1	3.0	64.5	66.8

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: R02 KEY: B  
 Identify reflection/absorption properties from color. (Physics)  
 Difficulty: 653

COUNTRY	N	A	B	C	D	OTHER INCOR RECT	DIFF	INVALID	NOT REACHED	OMIT	1. GIRL % Right	2. BOY % Right
Australia	687	18.9	42.0	18.1	20.5	0.5	42.0	0.0	0.0	0.5	41.6	42.5
Austria	373	20.5	28.5	26.3	22.3	2.3	28.5	0.0	0.0	2.3	27.0	29.6
Belgium (Fl)	342	13.7	36.7	19.2	28.9	1.5	36.7	0.3	0.0	1.2	35.2	38.3
Belgium (Fr)	280	18.9	30.3	13.0	31.0	6.8	30.3	0.0	0.0	6.8	27.0	32.8
Bulgaria	240	20.7	43.5	11.1	15.5	9.2	43.5	1.9	0.0	7.2	42.0	45.3
Canada	1030	20.1	40.1	24.0	15.6	0.1	40.1	0.0	0.0	0.1	42.1	38.4
Colombia	333	25.3	18.9	14.7	36.9	4.3	18.9	0.0	0.2	4.0	13.0	24.7
Cyprus	337	31.9	34.4	12.6	19.2	2.0	34.4	0.2	0.0	1.8	32.4	36.2
Czech Republic	417	27.1	30.5	15.0	25.4	2.0	30.5	0.1	0.0	1.9	30.4	30.7
Denmark	269	21.7	27.7	17.1	29.4	4.1	27.7	0.4	0.0	3.7	24.2	30.9
England	221	17.9	50.9	12.3	18.5	0.5	50.9	0.0	0.0	0.5	49.5	51.9
France	371	22.2	33.2	13.6	27.2	3.7	33.2	0.0	0.0	3.7	30.3	36.4
Germany	356	18.5	32.2	21.3	19.9	8.1	32.2	0.0	0.0	8.1	32.1	32.6
Greece	484	36.7	29.6	15.3	16.0	2.3	29.6	0.0	0.0	2.3	25.2	33.1
Hong Kong	428	19.9	52.3	16.2	10.9	0.7	52.3	0.0	0.0	0.7	52.1	52.5
Hungary	377	19.0	42.2	10.7	24.5	3.6	42.2	0.0	0.0	3.6	40.3	44.0
Iceland	237	23.9	34.3	13.8	25.7	2.3	34.3	0.4	0.0	1.8	35.5	32.7
Iran, Islamic Rep.	465	40.5	19.1	16.7	23.0	0.8	19.1	0.0	0.1	0.7	22.7	16.7
Ireland	408	23.4	34.5	14.6	26.5	1.0	34.5	0.0	0.0	1.0	31.8	37.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	17.1	54.3	17.6	10.8	0.2	54.3	0.0	0.0	0.2	54.2	54.4
Korea	360	13.8	57.8	14.5	13.9	0.0	57.8	0.0	0.0	0.0	54.9	59.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	24.3	27.0	10.9	29.9	7.9	27.0	0.0	0.3	7.6	30.6	23.3
Lithuania	312	19.2	22.4	10.6	31.6	16.2	22.4	0.0	0.2	15.9	30.6	14.6
Netherlands	265	19.7	37.8	22.6	17.3	2.6	37.8	0.0	0.4	2.2	33.2	42.7
New Zealand	394	19.4	45.8	16.5	18.1	0.2	45.8	0.0	0.0	0.2	49.2	42.9
Norway	304	30.1	37.9	15.4	14.4	2.2	37.9	0.0	0.0	2.2	34.0	41.1
Philippines	721	33.1	48.8	9.2	8.3	0.6	48.8	0.0	0.0	0.6	51.5	45.6
Portugal	426	30.2	23.6	13.0	30.8	2.3	23.6	0.0	0.0	2.3	21.3	26.1
Romania	471	29.0	18.1	10.7	35.8	6.3	18.1	0.3	0.1	5.9	19.9	16.6
Russian Federation	514	20.8	25.4	11.9	37.9	4.0	25.4	0.6	0.0	3.4	24.7	26.2
Scotland	370	20.7	36.4	20.4	22.5	0.0	36.4	0.0	0.0	0.0	39.8	33.1
Singapore	449	20.2	55.7	10.6	13.0	0.5	55.7	0.0	0.0	0.5	54.0	57.3
Slovak Republic	439	28.7	35.3	7.6	27.1	1.3	35.3	0.0	0.0	1.3	30.4	40.2
Slovenia	371	22.2	27.9	16.3	32.1	1.5	27.9	0.2	0.0	1.3	28.0	27.7
South Africa	610	34.5	19.0	19.2	23.0	4.3	19.0	0.2	0.5	3.6	16.0	21.8
Spain	451	31.0	37.9	15.0	14.5	1.6	37.9	0.0	0.0	1.6	33.3	42.0
Sweden	362	28.4	33.6	13.6	24.4	0.0	33.6	0.0	0.0	0.0	30.2	36.1
Switzerland	518	16.7	33.7	22.0	24.4	3.2	33.7	0.8	0.0	2.4	31.6	36.2
Thailand	696	23.4	46.2	10.4	19.2	0.8	46.2	0.0	0.1	0.7	51.7	38.8
United States	480	21.7	45.7	19.9	12.5	0.2	45.7	0.0	0.0	0.2	49.4	41.6
INTERNATIONAL AVG	.	23.6	35.8	15.3	22.5	2.8	35.8	0.1	0.0	2.6	35.1	36.4

DIFF = Item Difficulty  
 Because of missing gender information, some totals may appear inconsistent

Item: R03  
 Give example of consequences of introducing new species. (Life Science)  
 Difficulty: 807

COUNTRY	N	20	21	29	10	11	12	19	70	79	90	99	V1	V2	NOT	OMIT	1.GIRL	2.BOY
															REACH		% Right	% Right
														ED				
Australia	687	19.9	3.3	0.6	37.7	3.2	3.3	1.3	0.9	7.2	4.0	18.8	69.2	23.7	0.0	18.8	26.5	20.9
Austria	373	4.9	0.8	0.0	20.9	0.0	16.8	0.0	1.1	33.2	4.7	17.6	43.4	5.6	0.0	17.6	6.4	4.3
Belgium (Fl)	342	2.6	3.7	3.5	7.9	3.0	4.4	6.2	2.2	28.8	4.6	33.0	31.3	9.8	0.0	33.0	8.6	11.2
Belgium (Fr)	280	0.0	0.0	2.9	0.0	0.0	0.0	13.4	0.0	21.7	0.0	62.1	16.2	2.9	0.0	62.1	2.0	3.8
Bulgaria	240	11.5	1.0	0.6	18.5	2.3	0.5	3.3	3.1	6.6	2.1	50.4	37.8	13.1	0.0	50.4	19.8	5.3
Canada	1030	4.9	4.5	3.9	28.0	2.8	7.0	4.0	3.0	18.0	3.0	20.9	55.1	13.3	0.0	20.9	15.5	10.9
Colombia	333	2.0	4.8	2.2	1.8	0.5	20.1	4.7	0.6	13.8	0.7	48.8	36.2	9.0	0.2	48.5	10.3	7.4
Cyprus	337	0.8	0.0	0.3	1.9	0.5	0.3	6.0	1.7	13.9	2.4	72.1	9.9	1.1	0.0	72.1	1.6	0.7
Czech Republic	417	2.2	4.2	3.7	6.5	2.4	5.6	6.8	9.6	17.6	3.9	37.6	31.3	10.1	0.0	37.6	11.4	8.7
Denmark	269	1.3	2.5	0.9	13.7	0.6	14.9	9.4	0.8	17.9	1.1	36.9	43.3	4.7	0.0	36.9	5.4	4.3
England	221	4.3	4.3	4.5	26.0	0.0	7.7	8.9	2.2	11.4	3.8	26.9	55.7	13.1	0.0	26.9	10.2	15.3
France	371	2.3	1.9	0.7	5.4	1.0	5.7	1.4	3.6	14.8	3.5	59.6	18.5	4.9	0.0	59.6	5.7	3.7
Germany	353	3.2	4.6	1.2	16.6	4.2	9.3	2.7	9.8	8.5	1.6	38.3	41.8	9.0	0.0	38.3	8.5	9.8
Greece	484	3.1	2.7	1.3	7.1	4.2	5.6	8.4	2.8	19.2	4.2	41.2	32.6	7.2	0.0	41.2	7.8	6.8
Hong Kong	428	0.7	0.5	0.0	8.6	0.2	24.9	0.9	0.0	36.3	0.7	27.2	35.8	1.1	0.0	27.2	1.1	1.2
Hungary	377	3.9	8.5	11.9	15.9	4.9	4.8	7.7	5.8	10.5	1.2	24.8	57.7	24.3	0.0	24.8	26.2	22.5
Iceland	237	0.3	0.2	1.4	20.6	21.6	4.0	3.5	9.6	13.0	2.2	23.5	51.7	2.0	0.0	23.5	1.6	2.5
Iran, Islamic Rep.	465	0.1	0.8	0.6	6.2	0.6	12.5	15.7	4.3	21.6	1.3	36.2	36.5	1.5	0.1	36.1	1.1	1.8
Ireland	408	3.4	5.7	1.3	18.0	1.5	11.8	3.3	7.2	18.7	5.7	23.3	45.0	10.4	0.0	23.3	10.4	10.4
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	1.9	1.2	0.1	7.8	0.8	25.6	22.3	4.5	18.6	1.2	15.9	59.8	3.3	0.0	15.9	3.0	3.5
Korea	360	13.2	12.6	3.2	7.7	4.3	9.7	1.6	6.3	18.3	0.0	23.1	52.3	28.9	0.0	23.1	26.3	30.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	1.7	1.5	0.6	7.5	2.8	8.9	8.7	6.2	10.6	4.1	47.5	31.7	3.9	0.3	47.2	4.1	3.6
Lithuania	312	0.3	3.0	0.2	2.4	1.9	1.7	0.4	2.7	16.7	2.1	68.5	10.0	3.6	0.2	68.2	6.2	1.0
Netherlands	265	3.2	3.3	0.4	45.8	1.9	3.0	0.3	2.0	34.2	1.0	4.9	57.9	6.9	0.4	4.5	8.7	5.1
New Zealand	393	0.4	15.1	2.0	29.4	3.3	1.2	4.1	1.7	11.4	0.8	30.6	55.5	17.5	0.0	30.6	20.7	15.0
Norway	304	1.7	3.7	0.0	31.9	2.0	13.7	0.0	1.2	9.3	6.0	30.6	53.0	5.4	0.0	30.6	5.5	5.3
Philippines	721	8.3	0.0	0.6	1.4	0.6	0.0	1.1	0.7	26.6	12.9	47.9	11.9	8.9	0.0	47.9	9.2	8.5
Portugal	426	2.0	4.7	1.9	9.5	4.1	3.1	7.1	5.6	16.6	6.1	39.1	32.6	8.7	0.0	39.1	9.9	7.5
Romania	472	2.9	5.7	1.6	4.4	4.6	12.3	3.5	6.9	17.6	2.3	38.1	35.0	10.2	0.1	38.0	10.0	10.4
Russian Federation	514	4.1	2.2	0.6	11.5	5.4	1.4	2.9	0.9	7.0	9.7	54.2	28.2	6.9	0.0	54.2	8.5	5.1
Scotland	370	3.1	4.8	3.5	29.2	1.5	2.8	6.0	2.8	13.2	3.7	29.5	50.8	11.4	0.0	29.5	9.5	13.3
Singapore	449	1.5	11.4	0.5	29.1	0.3	3.6	0.3	0.3	20.2	2.3	30.6	46.6	13.4	0.0	30.6	14.2	12.8
Slovak Republic	440	1.9	1.6	1.8	10.2	3.7	7.3	4.7	1.5	14.8	3.3	49.3	31.2	5.3	0.0	49.3	3.1	7.6
Slovenia	372	5.2	6.6	4.6	9.5	2.1	9.2	10.9	3.4	9.4	2.4	36.7	48.1	16.4	0.0	36.7	14.3	18.2
South Africa	610	1.7	2.4	0.5	1.2	0.2	2.2	0.9	0.6	31.8	2.8	55.7	9.2	4.6	0.6	55.0	3.4	5.9
Spain	451	5.7	5.1	1.2	11.4	4.0	21.7	5.1	3.1	11.2	2.3	29.2	54.2	12.0	0.0	29.2	9.2	14.4
Sweden	362	2.4	0.4	0.9	22.0	2.3	7.9	24.1	3.4	10.9	6.6	19.1	60.0	3.7	0.0	19.1	4.0	3.5
Switzerland	518	1.4	1.7	0.8	15.3	2.0	8.8	4.5	12.3	18.6	7.0	27.5	34.5	3.9	0.0	27.5	3.5	4.4
Thailand	696	2.8	3.4	10.4	4.9	0.9	30.1	27.7	2.1	5.0	0.0	12.8	80.2	16.6	0.1	12.6	17.8	14.6
United States	480	3.9	5.7	4.8	26.0	2.4	9.6	4.3	3.6	23.6	3.2	13.0	56.7	14.4	0.0	13.0	15.2	13.5
INTERNATIONAL AVG	.	3.5	3.8	2.0	14.5	2.6	8.6	6.2	3.5	17.0	3.3	35.1	41.2	9.3	0.1	35.0	9.7	8.9

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: R04

Give reason why ozone layer is important for life. (Earth Science)

Difficulty: 583

COUNTRY	N	10	11	12	19	70	71	72	73	74	76	79	90	99	V1	NOT	OMIT	1.GIRL	2.BOY	
																REACH		% Right	% Right	
Australia	687	22.8	15.8	6.0	0.7	1.9	15.6	8.5	6.5	1.7	0.0	10.8	0.9	8.9	45.2	0.0	8.9	42.7	47.9	
Austria	373	31.0	18.9	3.7	0.0	0.4	11.8	6.2	1.9	1.4	0.0	10.6	2.8	11.3	53.6	0.0	11.3	45.5	62.4	
Belgium (Fl)	342	13.2	18.8	7.4	0.6	3.1	7.6	8.1	10.4	2.1	2.2	15.9	2.1	8.4	40.1	0.0	8.4	32.6	48.3	
Belgium (Fr)	280	0.0	0.0	0.0	38.2	0.0	0.0	0.0	0.0	0.0	0.0	44.2	0.0	17.6	38.2	0.0	17.6	33.1	43.9	
Bulgaria	240	40.3	9.2	8.1	6.5	0.4	1.9	2.1	1.4	0.0	1.3	6.2	0.8	21.9	64.2	0.0	21.9	66.2	61.8	
Canada	1030	26.2	19.5	6.9	0.6	1.9	12.5	6.8	5.1	2.1	0.3	11.3	1.3	5.5	53.2	0.0	5.5	52.4	54.5	
Colombia	333	23.8	8.6	14.2	4.2	0.0	4.7	17.9	6.5	2.1	2.3	5.4	0.3	10.0	50.9	0.2	9.7	54.0	47.5	
Cyprus	337	3.7	16.1	3.6	1.5	1.6	8.7	6.2	3.2	0.4	0.8	9.0	0.4	44.6	24.9	0.0	44.6	27.9	22.2	
Czech Republic	417	32.0	18.8	8.3	2.7	0.6	2.7	2.3	1.1	1.3	2.3	15.5	0.4	12.0	61.8	0.0	12.0	56.9	67.1	
Denmark	269	9.4	11.9	2.3	0.0	0.2	22.3	14.8	4.9	2.6	0.0	7.6	0.8	23.2	23.7	0.0	23.2	21.5	25.5	
England	221	11.0	15.1	7.0	2.2	2.9	13.8	11.9	12.0	4.3	0.0	12.9	1.4	5.4	35.3	0.0	5.4	33.9	36.4	
France	371	12.5	12.5	4.0	0.3	0.8	6.0	7.3	19.3	4.8	0.6	12.9	1.7	17.2	29.3	0.0	17.2	24.9	34.5	
Germany	352	26.3	15.3	9.6	1.3	3.4	8.7	5.1	2.1	1.7	0.3	6.4	0.5	19.3	52.5	0.0	19.3	48.2	56.9	
Greece	484	17.0	18.4	1.7	3.0	0.4	2.5	8.8	8.1	1.4	0.7	14.9	0.8	22.3	40.1	0.0	22.3	37.6	42.5	
Hong Kong	426	28.0	8.5	2.3	8.0	0.2	1.6	3.3	20.3	3.4	0.0	10.6	0.2	13.4	46.9	0.0	13.4	40.1	52.3	
Hungary	377	16.5	28.9	3.1	3.4	0.8	4.9	7.8	3.7	2.9	0.2	11.5	1.5	14.9	51.9	0.0	14.9	49.9	53.8	
Iceland	237	30.3	10.6	2.9	3.1	1.7	3.9	7.5	6.8	4.2	1.8	9.4	1.5	16.2	47.0	0.0	16.2	37.3	60.3	
Iran, Islamic Rep.	465	1.1	11.7	0.2	3.1	0.5	2.9	5.5	1.1	0.1	2.4	30.6	0.5	40.2	16.2	0.1	40.2	8.8	21.8	
Ireland	408	8.2	22.0	7.7	0.9	3.1	15.0	10.3	11.7	1.5	0.0	12.5	0.8	6.5	38.7	0.0	6.5	36.3	41.7	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	37.5	2.9	4.3	0.1	1.2	2.0	13.8	3.3	3.0	0.3	22.8	0.7	8.2	44.8	0.0	8.2	39.9	49.2	
Korea	360	17.7	15.2	9.4	2.6	1.7	3.8	11.3	3.1	1.9	0.5	21.8	0.0	11.0	44.9	0.0	11.0	33.8	52.6	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	12.4	4.4	0.8	2.3	2.5	4.0	5.1	7.2	4.0	4.4	19.0	1.8	32.1	19.9	0.6	31.5	14.1	25.9	
Lithuania	312	7.3	10.5	1.8	0.0	0.2	3.5	3.0	3.7	1.5	0.5	5.5	2.5	60.0	19.6	0.2	59.7	20.3	19.0	
Netherlands	265	14.6	9.0	22.4	1.1	3.2	16.4	5.9	11.1	3.0	0.0	8.0	1.0	4.4	47.0	0.4	4.0	43.2	50.4	
New Zealand	393	21.6	13.1	13.6	4.6	2.2	10.7	6.3	8.5	1.9	0.0	10.4	0.0	7.0	53.0	0.0	7.0	50.4	55.1	
Norway	304	16.7	33.1	4.7	0.0	1.7	5.6	10.2	12.0	3.0	0.0	2.5	2.2	8.2	54.5	0.0	8.2	55.3	53.8	
Philippines	721	9.2	19.3	1.8	2.8	1.7	0.8	5.8	0.0	0.0	5.5	24.3	8.6	20.2	33.0	0.0	20.2	30.3	36.3	
Portugal	426	27.1	8.9	2.3	1.7	0.4	5.4	12.0	11.0	1.5	0.3	12.7	2.1	14.6	40.0	0.0	14.6	33.0	47.2	
Romania	472	15.8	13.2	0.9	1.1	1.2	1.4	11.4	7.6	1.0	0.0	13.2	0.4	32.7	31.1	0.1	32.6	25.8	35.9	
Russian Federation	514	13.5	8.6	6.2	1.7	0.4	1.7	7.5	5.5	2.1	1.2	10.9	3.4	37.3	30.1	0.0	37.3	29.1	31.2	
Scotland	370	4.8	18.6	4.2	1.1	3.4	7.7	9.9	14.2	3.9	0.0	20.6	0.9	10.8	28.6	0.0	10.8	22.1	35.5	
Singapore	449	47.2	19.2	4.6	0.3	0.3	5.2	7.3	2.9	0.3	0.7	6.8	0.0	5.2	71.4	0.0	5.2	70.1	72.5	
Slovak Republic	440	35.3	23.3	4.2	3.9	1.5	1.6	1.2	1.4	1.2	0.4	12.1	1.1	12.7	66.7	0.0	12.7	60.3	73.0	
Slovenia	372	26.9	14.4	2.8	3.0	1.3	7.8	5.6	2.3	1.6	1.2	13.2	2.5	17.4	47.1	0.0	17.4	49.5	44.8	
South Africa	610	4.2	3.0	1.6	0.8	0.1	0.9	5.1	1.1	0.8	1.7	36.3	1.6	42.7	9.6	0.6	42.1	8.1	11.2	
Spain	451	28.2	19.3	14.6	0.8	0.1	2.5	8.9	12.7	2.5	0.5	5.6	0.2	4.2	62.9	0.0	4.2	56.8	68.3	
Sweden	362	17.6	27.8	5.5	3.2	0.7	9.5	4.2	2.2	2.5	1.1	11.4	3.2	11.3	54.1	0.0	11.3	52.6	55.2	
Switzerland	518	12.9	15.7	9.4	1.3	0.9	14.9	6.7	8.1	5.1	0.4	9.7	2.9	12.0	39.2	0.0	12.0	33.9	45.5	
Thailand	696	8.4	19.2	2.2	2.3	2.3	0.0	4.2	11.7	1.7	0.7	18.1	0.0	29.1	32.2	0.1	29.0	31.1	34.0	
United States	480	18.2	17.7	3.4	0.7	1.1	11.8	10.5	7.4	3.7	0.7	17.8	1.8	5.2	40.0	0.0	5.2	35.1	45.5	
INTERNATIONAL AVG	.	18.8	14.9	5.5	2.9	1.3	6.6	7.4	6.6	2.1	0.9	14.0	1.4	17.6	42.1	0.1	17.6	38.6	45.6	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: R05  
 Explain how carbon dioxide fire extinguishers work. (Chemistry)  
 Difficulty: 589

COUNTRY	N	10	11	19	70	71	79	90	99	V1	NOT	1.GIRL	2.BOY
											REACH		
Australia	687	42.2	13.5	0.8	1.4	0.0	19.5	3.8	18.7	56.5	0.0	18.7	58.4
Austria	373	23.4	39.6	0.0	0.7	1.6	15.9	4.7	14.1	63.0	0.0	14.1	66.1
Belgium (Fl)	342	34.6	6.7	2.3	4.3	2.4	27.9	2.4	19.5	43.6	0.0	19.5	54.6
Belgium (Fr)	280	0.0	0.0	30.0	0.0	0.0	26.7	0.0	43.3	30.0	0.0	43.3	41.9
Bulgaria	240	35.8	2.3	5.6	0.6	0.0	4.8	2.7	48.1	43.8	0.0	48.1	43.8
Canada	1030	40.5	10.2	1.0	3.1	4.5	18.3	3.2	19.3	51.7	0.0	19.3	52.6
Colombia	333	2.3	2.7	8.1	1.8	4.4	26.5	0.5	53.7	13.1	0.2	53.4	14.0
Cyprus	337	27.4	1.0	0.9	1.6	3.0	7.9	2.0	56.2	29.2	0.0	56.2	29.7
Czech Republic	417	28.7	17.0	1.0	0.6	0.3	26.8	2.9	22.7	46.7	0.0	22.7	51.5
Denmark	269	7.0	14.1	0.0	4.2	1.7	19.5	0.0	53.5	21.1	0.0	53.5	23.6
England	221	49.4	7.7	1.5	3.4	2.5	20.7	4.3	10.3	58.7	0.0	10.3	60.9
France	371	18.5	15.2	0.6	2.3	2.1	16.0	1.7	43.5	34.4	0.0	43.5	39.0
Germany	352	29.0	32.5	0.3	0.5	1.0	5.1	1.6	30.0	61.8	0.0	30.0	77.1
Greece	484	20.9	1.9	7.8	3.8	3.0	17.9	3.0	41.6	30.6	0.0	41.6	36.0
Hong Kong	421	27.8	3.3	1.2	0.5	5.0	41.9	0.5	19.8	32.3	0.0	19.8	37.7
Hungary	377	39.4	12.8	7.6	1.1	1.5	12.6	0.2	24.8	59.8	0.0	24.8	65.4
Iceland	237	22.2	17.5	5.7	4.0	11.5	9.9	7.2	22.1	45.3	0.0	22.1	53.1
Iran, Islamic Rep.	465	51.3	2.2	9.6	2.7	2.1	14.7	0.2	17.2	63.1	0.1	17.1	71.4
Ireland	408	34.3	16.9	2.7	2.8	4.3	21.2	2.4	15.5	53.8	0.0	15.5	64.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	638	26.8	0.9	8.2	0.5	15.6	24.7	2.7	20.6	35.9	0.0	20.6	40.0
Korea	360	33.8	10.8	7.1	3.1	0.0	35.6	0.0	9.6	51.7	0.0	9.6	56.4
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	319	16.0	7.8	4.7	3.9	2.9	12.5	8.2	44.0	28.5	0.6	43.4	35.3
Lithuania	312	12.8	3.8	0.7	0.4	1.5	5.3	3.4	72.1	17.3	0.2	71.8	17.5
Netherlands	265	32.4	6.9	1.4	7.3	6.0	25.9	8.3	11.8	40.7	0.4	11.4	47.5
New Zealand	393	32.0	12.1	4.0	8.0	4.2	15.3	1.0	23.3	48.1	0.0	23.3	49.5
Norway	304	26.3	25.6	0.0	2.4	4.1	13.0	6.1	22.5	51.8	0.0	22.5	50.0
Philippines	721	9.4	1.2	1.4	1.9	5.8	38.0	6.5	35.6	12.1	0.0	35.6	13.9
Portugal	426	14.7	2.8	6.2	0.9	2.2	32.2	3.6	37.5	23.7	0.0	37.5	31.9
Romania	472	15.1	9.1	9.6	4.6	1.7	16.8	0.5	42.7	33.8	0.1	42.5	35.5
Russian Federation	514	23.4	5.2	14.2	0.3	2.0	13.2	4.7	37.0	42.7	0.0	37.0	46.5
Scotland	370	23.4	14.4	2.6	6.0	5.4	26.5	2.1	19.7	40.4	0.0	19.7	46.7
Singapore	449	22.9	1.1	32.4	0.2	1.8	28.6	1.1	11.8	56.3	0.0	11.8	61.1
Slovak Republic	440	31.3	15.0	1.6	0.3	1.1	15.9	3.1	31.5	47.9	0.0	31.5	59.4
Slovenia	372	28.4	13.3	7.0	3.9	1.4	16.5	2.1	27.4	48.7	0.0	27.4	53.9
South Africa	610	7.0	2.3	3.0	1.6	1.9	39.2	1.7	43.3	12.2	0.6	42.7	15.5
Spain	451	27.9	2.5	5.7	1.6	4.6	21.0	0.5	36.2	36.1	0.0	36.2	43.4
Sweden	362	25.2	43.7	0.7	2.3	1.7	9.5	6.5	10.4	69.6	0.0	10.4	72.5
Switzerland	518	16.0	31.8	0.3	2.2	4.6	14.0	6.6	24.4	48.1	0.0	24.4	52.2
Thailand	696	15.6	6.3	5.4	4.0	3.4	40.5	2.4	22.3	27.3	0.1	22.2	27.1
United States	480	44.5	7.7	1.2	2.9	3.2	25.5	3.1	12.0	53.4	0.0	12.0	62.9
INTERNATIONAL AVG	.	25.5	11.0	5.1	2.4	3.2	20.6	2.9	29.2	41.6	0.1	29.2	46.5

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: W01A  
 Give reason region in land/water diagram is a good farming location. (Earth Science)  
 Difficulty: 383

COUNTRY	N	NOT REACH ED										OMIT	1. GIRL % Right	2. BOY % Right	
		10	11	12	19	70	76	79	90	99	V1				
Australia	1393	24.3	46.4	6.5	4.1	0.4	2.7	10.3	0.9	4.5	81.3	1.3	3.2	83.1	79.1
Austria	746	23.1	35.3	14.5	0.9	0.2	0.0	14.5	3.2	8.4	73.8	1.2	7.2	74.5	73.6
Belgium (Fl)	680	49.3	28.2	1.9	3.6	0.4	7.8	5.5	0.0	3.3	83.0	0.8	2.5	82.9	83.1
Belgium (Fr)	561	0.0	0.0	0.0	52.8	0.0	0.0	27.4	0.0	19.8	52.8	3.1	16.7	52.7	52.8
Bulgaria	507	24.1	39.3	0.6	5.9	2.2	2.9	2.4	0.5	22.0	69.9	6.7	15.3	74.2	65.0
Canada	2071	30.6	26.9	12.4	12.9	0.8	3.6	6.9	1.1	4.8	82.8	1.6	3.2	84.3	81.3
Colombia	657	10.7	33.1	1.6	9.0	0.9	3.8	10.8	1.0	29.1	54.4	15.7	13.4	51.1	57.2
Cyprus	672	18.6	50.3	3.1	3.8	0.4	0.5	3.7	0.8	18.8	75.7	3.9	14.9	78.7	73.3
Czech Republic	842	13.6	53.9	2.3	9.9	0.6	2.1	6.1	1.1	10.3	79.7	3.0	7.3	81.5	78.0
Denmark	421	9.6	32.3	3.9	9.2	0.4	2.2	13.0	1.1	28.4	55.0	6.6	21.7	55.9	53.7
England	451	32.4	38.2	13.3	7.4	0.5	1.7	2.9	1.2	2.3	91.4	0.4	1.9	89.8	92.8
France	737	15.6	47.1	1.8	2.9	0.5	8.3	7.3	1.6	14.9	67.4	2.2	12.8	66.8	68.0
Germany	708	24.8	35.8	4.3	6.0	0.2	0.4	8.3	0.8	19.5	70.9	3.2	16.3	68.1	73.1
Greece	968	23.6	50.2	1.4	0.8	1.1	0.8	5.0	1.2	16.1	75.9	2.4	13.7	77.0	74.9
Hong Kong	847	25.7	32.2	2.1	5.1	0.5	16.1	5.4	0.1	12.8	65.1	3.5	9.4	71.2	60.1
Hungary	769	44.3	24.5	1.7	2.2	0.5	0.6	10.0	1.3	15.0	72.7	5.0	10.0	71.3	74.0
Iceland	489	13.0	34.0	14.1	9.6	0.0	1.8	10.4	2.3	14.7	70.7	2.5	12.2	74.4	66.9
Iran, Islamic Rep.	929	25.9	51.3	1.5	1.8	0.1	0.1	8.6	0.7	9.9	80.6	2.3	7.6	77.9	82.5
Ireland	781	47.6	31.0	7.4	2.6	0.5	2.1	5.6	0.5	2.8	88.6	0.6	2.2	87.4	89.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1274	7.1	68.4	3.5	10.5	1.2	0.5	3.4	0.9	4.6	89.5	0.8	3.8	88.3	90.7
Korea	719	27.6	59.4	1.8	2.3	0.6	2.7	2.6	0.0	3.0	91.1	0.3	2.7	91.7	90.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	654	15.2	45.4	2.3	9.9	0.5	0.2	3.8	1.1	21.4	72.9	5.8	15.6	73.8	71.9
Lithuania	639	23.7	33.2	0.4	5.2	0.0	0.8	6.1	0.6	30.0	62.5	10.8	19.2	64.2	60.9
Netherlands	528	42.3	21.9	7.3	1.0	1.7	7.3	11.0	2.8	4.6	72.5	0.5	4.1	72.3	73.3
New Zealand	808	25.8	36.0	14.9	10.2	0.4	2.4	5.1	0.8	4.3	87.0	1.5	2.9	86.0	87.8
Norway	625	14.4	59.8	8.0	0.6	0.6	0.3	6.7	2.5	7.1	82.8	1.6	5.5	83.5	81.8
Philippines	1463	20.3	28.0	2.6	1.4	1.0	5.9	17.2	3.5	20.1	52.2	7.9	12.2	53.7	50.6
Portugal	832	19.3	39.6	2.6	5.3	3.5	2.5	11.6	2.6	12.8	66.8	3.1	9.7	69.6	63.8
Romania	932	18.2	41.9	0.9	2.6	0.2	1.3	11.6	1.4	21.8	63.7	5.2	16.6	64.0	63.3
Russian Federation	1026	20.4	38.7	3.5	7.7	0.4	0.7	1.6	2.9	24.1	70.3	5.8	18.3	70.2	70.4
Scotland	725	16.9	46.8	9.7	3.9	0.0	3.1	13.6	0.6	5.3	77.4	0.9	4.3	76.3	78.4
Singapore	904	52.2	36.2	1.0	1.3	0.2	0.7	4.9	0.2	3.4	90.6	0.6	2.8	91.0	90.2
Slovak Republic	921	10.6	62.2	0.2	6.1	2.3	1.1	3.9	1.1	12.4	79.1	2.6	9.8	75.9	82.6
Slovenia	726	24.9	51.1	4.3	6.2	0.7	1.8	4.8	1.4	4.8	86.5	0.9	3.9	87.9	84.8
South Africa	1332	11.8	24.3	3.4	2.6	1.9	4.1	20.0	1.6	30.4	42.1	12.2	18.2	41.0	43.8
Spain	935	21.8	49.8	4.8	5.1	0.7	1.9	5.2	0.4	10.3	81.5	3.1	7.2	78.2	85.0
Sweden	685	19.9	49.8	1.3	9.3	0.2	1.0	5.3	3.0	10.2	80.2	1.6	8.6	82.6	78.2
Switzerland	1022	20.0	36.5	18.9	3.7	1.1	0.5	6.9	2.5	9.9	79.1	1.6	8.3	77.2	80.9
Thailand	1455	31.8	59.8	0.5	2.3	0.1	1.0	1.8	0.3	2.4	94.4	0.7	1.6	94.8	93.6
United States	953	27.7	48.9	9.1	2.2	0.4	2.3	6.8	0.5	2.1	87.9	0.5	1.7	86.6	89.2
INTERNATIONAL AVG	.	23.2	40.7	4.9	6.2	0.7	2.5	7.9	1.3	12.6	75.0	3.4	9.2	75.3	74.8

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent



Item: W01B  
 Give reason region in land/water diagram is NOT a good farming location. (Earth Science)  
 Difficulty: 632

COUNTRY	N	NOT REACH ED											OMIT	1.GIRL % Right	2.BOY % Right			
		10	11	19	70	71	72	73	76	79	90	99				V1		
Australia	1393	46.5	5.6	2.5	0.8	1.1	3.3	11.6	0.8	16.5	3.0	8.3	54.6	3.4	4.9	50.6	59.4	
Austria	746	31.0	3.8	4.2	5.0	0.3	9.5	9.8	0.0	16.2	4.2	16.0	39.0	5.9	10.1	40.9	38.1	
Belgium (Fl)	680	53.9	1.2	4.7	2.2	1.3	1.7	7.1	7.5	13.1	0.2	7.1	59.8	1.5	5.6	60.5	59.2	
Belgium (Fr)	561	0.0	0.0	29.9	0.0	0.0	0.0	0.0	0.0	38.6	0.0	31.4	29.9	9.8	21.6	31.7	28.3	
Bulgaria	507	17.7	2.0	8.4	0.8	0.2	0.9	10.3	4.8	14.5	2.2	38.3	28.1	18.7	19.5	30.9	25.0	
Canada	2071	33.2	4.0	6.3	1.9	1.7	4.2	13.4	1.6	22.0	2.1	9.6	43.5	3.3	6.3	42.2	44.6	
Colombia	657	12.8	8.5	0.6	1.8	0.0	2.8	4.2	2.6	27.2	0.7	38.8	21.9	23.5	15.3	20.0	24.0	
Cyprus	672	16.7	1.6	2.3	1.0	2.1	3.3	13.9	1.0	21.6	1.6	35.0	20.6	15.0	20.1	19.7	21.4	
Czech Republic	842	23.1	3.6	8.7	1.2	0.1	2.5	17.8	4.7	15.8	1.9	20.6	35.4	7.8	12.7	31.1	39.7	
Denmark	421	18.1	0.4	6.5	0.9	0.2	0.1	10.0	2.6	20.9	1.0	39.2	25.0	18.7	20.6	22.3	27.4	
England	451	52.6	2.1	13.0	0.8	3.3	2.4	8.4	0.6	11.1	1.7	4.0	67.6	1.0	3.0	64.0	70.9	
France	737	27.2	0.5	1.9	0.7	0.2	3.3	14.3	4.5	16.0	2.0	29.4	29.7	7.5	21.8	26.1	33.0	
Germany	708	36.0	3.2	4.9	1.0	0.1	3.4	6.8	0.2	10.9	1.5	32.0	44.1	10.4	21.6	45.5	42.8	
Greece	968	19.0	1.4	1.8	0.6	0.7	6.0	20.6	1.4	20.1	2.4	26.1	22.1	10.7	15.4	19.6	24.3	
Hong Kong	848	23.9	3.2	1.4	0.5	0.5	4.6	26.7	0.6	16.0	0.1	22.6	28.5	7.9	14.7	28.8	28.0	
Hungary	769	24.0	11.9	3.4	1.1	0.8	1.9	7.4	1.8	23.9	0.7	23.2	39.3	10.5	12.6	38.0	40.5	
Iceland	488	15.2	2.1	6.5	0.2	0.7	4.4	15.9	1.7	24.8	6.1	22.4	23.8	8.9	13.5	20.6	27.0	
Iran, Islamic Rep.	929	13.1	1.1	4.7	1.7	0.2	2.3	37.6	0.4	22.7	1.2	15.1	18.9	5.5	9.6	12.9	23.3	
Ireland	781	67.1	0.9	4.6	1.0	2.3	4.4	5.2	2.1	7.1	1.2	4.2	72.6	1.4	2.8	72.9	72.2	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1274	8.3	4.4	12.3	1.4	0.1	10.7	40.9	3.3	10.0	1.1	7.6	25.0	2.5	5.1	25.2	24.8	
Korea	719	18.5	3.0	5.7	1.9	1.4	12.0	30.2	0.9	20.0	0.0	6.4	27.2	2.8	3.7	25.1	28.7	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	655	15.8	5.0	4.5	0.5	1.6	10.9	7.4	0.5	17.9	3.1	32.8	25.3	13.3	19.5	24.8	26.0	
Lithuania	639	22.2	0.5	2.7	0.4	0.2	5.1	5.3	1.0	17.1	1.4	44.0	25.5	25.0	19.0	27.1	23.9	
Netherlands	528	51.7	0.9	2.0	2.3	0.7	0.7	10.2	2.5	14.7	4.4	9.9	54.7	1.1	8.8	59.8	48.8	
New Zealand	808	49.4	2.3	10.6	2.3	0.9	5.0	7.5	0.5	11.9	0.1	9.4	62.3	2.5	6.9	61.7	62.8	
Norway	624	29.9	2.8	6.4	0.8	0.1	3.1	17.0	1.3	20.2	5.2	13.3	39.1	2.4	10.8	36.9	41.7	
Philippines	1463	20.1	7.0	1.5	0.4	0.1	1.0	4.0	10.3	24.5	3.7	27.4	28.6	13.8	13.6	30.3	26.7	
Portugal	832	10.7	0.6	3.1	0.9	1.4	2.2	17.5	2.3	26.3	3.0	32.2	14.4	10.3	21.8	14.3	14.5	
Romania	932	25.0	0.9	2.1	0.1	0.4	1.5	10.0	1.0	19.8	1.6	37.6	28.0	15.2	22.4	27.5	28.5	
Russian Federation	1026	27.2	2.6	4.8	0.0	0.2	1.4	9.9	2.4	9.2	5.4	37.1	34.5	15.8	21.3	33.0	35.9	
Scotland	725	42.4	1.6	6.8	1.0	0.9	3.5	6.3	0.9	27.3	2.3	7.0	50.9	3.3	3.7	54.7	47.1	
Singapore	904	34.6	14.5	3.0	1.5	1.6	2.5	15.0	0.3	19.9	0.3	6.8	52.1	2.3	4.5	51.5	52.7	
Slovak Republic	921	22.4	2.9	13.9	0.4	1.4	4.7	11.9	1.0	10.1	2.2	29.2	39.2	8.5	20.7	37.7	40.8	
Slovenia	726	36.1	2.5	7.2	1.4	0.6	4.3	12.9	0.7	16.1	1.7	16.5	45.8	2.8	13.8	44.1	47.7	
South Africa	1332	8.3	1.8	2.2	1.8	2.6	1.8	7.4	2.0	34.7	1.3	36.1	12.3	23.9	12.2	11.1	13.9	
Spain	935	23.2	1.3	8.7	1.9	0.6	3.7	13.3	1.2	20.4	1.2	24.5	33.2	7.8	16.8	30.4	36.1	
Sweden	685	23.0	0.7	10.0	0.4	1.0	2.6	18.5	0.5	14.5	11.1	17.7	33.8	5.2	12.4	35.2	32.1	
Switzerland	1022	38.3	1.2	5.1	4.1	1.0	4.8	11.3	0.2	13.3	4.2	16.5	44.7	5.0	11.4	42.8	46.4	
Thailand	1455	44.4	8.4	19.5	0.1	0.1	0.1	1.8	0.3	19.5	0.6	5.3	72.2	2.1	3.1	70.9	73.7	
United States	953	45.8	4.1	5.7	0.5	0.7	3.2	12.8	2.0	19.3	1.6	4.2	55.7	1.4	2.8	56.3	55.1	
INTERNATIONAL AVG	.	28.2	3.2	6.4	1.2	0.8	3.6	12.8	1.8	18.6	2.2	21.1	37.7	8.5	12.7	37.0	38.4	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: W02  
 Draw diagram showing Earth's water cycle. (Earth Science)  
 Difficulty: 659

COUNTRY	N	NOT REACH ED										1.GIRL % Right		2.BOY % Right		
		20	10	11	12	19	70	79	90	99	V1	V2	OMIT	% Right	% Right	
Australia	1393	26.1	8.0	3.0	0.8	6.2	27.3	10.5	2.6	15.5	44.1	26.1	5.3	10.2	24.6	27.8
Austria	746	30.7	6.7	5.6	1.1	0.3	10.1	32.1	2.5	10.9	44.3	30.7	7.3	3.7	29.6	33.1
Belgium (Fl)	680	56.3	6.0	4.3	0.7	1.2	15.7	6.3	1.7	7.9	68.4	56.3	2.6	5.3	53.7	58.9
Belgium (Fr)	561	23.8	0.0	0.0	0.0	12.8	0.0	38.4	0.0	25.0	36.7	23.8	14.6	10.3	19.4	29.1
Bulgaria	507	21.0	22.0	4.1	0.2	0.8	2.1	2.1	4.1	43.6	48.2	21.0	25.8	17.8	20.5	21.6
Canada	2071	35.9	11.4	5.2	0.4	1.1	28.0	4.4	1.9	11.7	53.9	35.9	4.9	6.8	34.3	37.6
Colombia	657	12.2	11.0	1.3	0.0	1.0	18.9	7.9	2.0	45.6	25.5	12.2	29.6	16.0	9.4	14.8
Cyprus	671	17.3	14.6	0.0	0.4	0.3	18.6	8.2	1.0	39.5	32.6	17.3	24.3	15.2	14.2	20.6
Czech Republic	842	21.6	3.8	7.9	0.2	1.5	27.9	10.6	3.3	23.2	35.0	21.6	11.9	11.3	17.8	25.3
Denmark	421	26.7	7.1	2.5	1.5	3.5	8.2	17.9	3.7	28.7	41.5	26.7	23.7	5.0	25.1	28.3
England	451	44.3	18.0	1.7	0.5	1.3	17.7	3.4	3.2	9.9	65.8	44.3	2.0	7.9	38.8	49.2
France	737	25.2	12.9	3.4	0.5	3.2	19.2	3.5	3.5	28.8	45.1	25.2	11.9	16.9	18.4	31.8
Germany	708	28.6	5.9	3.4	1.0	0.3	24.9	7.2	1.2	27.4	39.3	28.6	16.0	11.4	29.0	28.2
Greece	967	15.8	8.5	1.9	0.2	1.8	28.0	9.8	5.0	28.9	28.2	15.8	15.9	13.0	14.7	16.8
Hong Kong	841	23.5	5.6	6.3	0.5	0.5	12.0	31.0	0.7	19.9	36.4	23.5	11.4	8.6	21.6	25.1
Hungary	769	24.2	20.8	1.2	0.2	1.7	7.4	9.2	7.8	27.5	48.2	24.2	15.8	11.7	19.0	29.1
Iceland	489	24.6	3.9	7.1	0.0	3.3	30.7	5.1	3.2	22.1	39.0	24.6	12.2	9.9	21.5	27.7
Iran, Islamic Rep.	929	15.2	10.0	1.1	0.8	6.0	21.0	13.0	10.3	22.7	33.1	15.2	8.3	14.3	10.3	18.9
Ireland	781	41.2	15.5	4.3	0.8	0.6	19.6	4.3	2.3	11.3	62.4	41.2	2.2	9.1	37.9	44.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1274	34.6	8.3	13.4	1.2	4.7	17.3	3.4	4.4	12.7	62.2	34.6	4.3	8.4	32.0	37.3
Korea	719	25.9	16.1	2.2	1.6	3.8	13.9	13.3	0.0	23.2	49.6	25.9	4.6	18.6	22.0	28.6
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	652	20.2	11.5	1.6	0.1	6.7	9.5	6.8	8.5	35.1	40.2	20.2	20.1	15.0	17.8	22.6
Lithuania	638	7.5	8.5	0.4	0.3	7.9	14.0	7.3	1.4	52.6	24.6	7.5	33.1	19.5	7.3	7.8
Netherlands	528	47.2	13.2	4.0	0.8	0.3	12.5	6.1	6.3	9.5	65.6	47.2	3.3	6.2	40.7	54.7
New Zealand	807	24.6	5.2	8.9	0.4	0.9	35.9	8.5	0.8	14.8	40.0	24.6	5.9	8.9	18.4	29.7
Norway	625	39.9	10.8	5.0	0.5	1.0	26.2	5.2	3.2	8.4	57.1	39.9	5.1	3.3	41.0	38.5
Philippines	1463	18.1	1.9	3.1	1.0	2.7	14.9	20.8	7.9	29.7	26.7	18.1	17.4	12.2	17.8	18.5
Portugal	832	17.4	5.7	4.5	0.8	0.7	21.9	3.3	6.2	39.6	29.1	17.4	21.3	18.3	15.7	19.2
Romania	931	17.8	2.9	4.3	0.3	1.5	29.5	4.9	2.4	36.4	26.7	17.8	22.9	13.6	16.8	18.9
Russian Federation	1024	56.0	0.7	7.4	0.7	1.7	2.1	1.5	3.4	26.6	66.4	56.0	20.1	6.5	52.7	59.2
Scotland	725	31.2	13.5	2.6	0.4	3.4	25.1	9.0	1.7	13.2	51.0	31.2	4.2	9.0	28.7	33.5
Singapore	904	44.7	19.6	2.4	1.4	0.2	18.7	2.7	0.5	9.8	68.3	44.7	3.7	6.1	40.0	49.6
Slovak Republic	921	23.9	5.1	5.6	0.3	1.4	25.4	6.7	4.3	27.4	36.3	23.9	14.7	12.6	21.1	26.8
Slovenia	726	24.9	8.9	3.1	3.1	8.9	10.6	20.7	4.5	15.2	48.9	24.9	6.6	8.7	24.1	25.9
South Africa	1332	7.2	6.7	0.7	0.2	4.8	14.9	19.0	5.2	41.4	19.6	7.2	28.0	13.4	7.2	7.2
Spain	935	24.5	6.2	4.6	1.2	1.2	22.5	5.9	1.2	32.7	37.7	24.5	15.0	17.6	18.4	30.9
Sweden	685	33.6	8.8	6.0	0.9	1.0	20.0	13.4	4.9	11.4	50.4	33.6	8.1	3.3	34.8	31.9
Switzerland	1022	26.4	10.2	3.7	0.8	0.9	26.4	13.5	2.4	15.7	42.0	26.4	7.4	8.3	20.8	31.8
Thailand	1455	13.4	51.0	0.0	0.0	3.2	14.2	1.6	1.2	15.4	67.6	13.4	3.0	12.4	12.2	15.1
United States	953	35.0	12.1	3.7	0.4	0.3	31.1	6.0	1.6	10.0	51.4	35.0	2.8	7.2	31.7	38.3
INTERNATIONAL AVG	.	27.2	10.5	3.8	0.7	2.6	18.6	10.1	3.3	23.3	44.7	27.2	12.4	10.8	24.5	29.9

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: X01  
 Describe materials and procedures used in exercise/heart-rate investigation. (Life Science)  
 Difficulty: 797

COUNTRY	N	20	10	11	12	19	70	79	90	99	V1	V2	NOT	1.GIRL	2.BOY	
													REACH			% Right
													ED	OMIT		
Australia	1400	8.1	1.8	0.7	11.9	7.1	15.3	21.9	4.9	28.4	29.6	8.1	1.5	26.9	8.5	7.5
Austria	759	6.0	1.0	0.1	14.8	0.7	17.0	35.7	4.7	20.0	22.7	6.0	1.5	18.5	7.3	4.8
Belgium (Fl)	701	16.0	9.8	1.4	13.5	3.6	22.3	17.3	1.5	14.6	44.3	16.0	0.6	14.0	17.3	14.7
Belgium (Fr)	572	7.9	0.0	0.0	0.0	14.7	0.0	42.4	0.0	34.9	22.6	7.9	2.7	32.2	8.7	7.3
Bulgaria	364	7.9	8.3	2.7	10.6	2.2	4.9	14.1	2.2	47.2	31.6	7.9	5.8	41.4	8.7	6.9
Canada	2050	11.7	4.2	0.5	15.2	2.4	20.8	17.6	4.0	23.5	34.1	11.7	0.7	22.8	15.0	8.4
Colombia	659	3.1	1.7	0.9	0.9	1.8	13.9	22.7	0.7	54.3	8.3	3.1	13.0	41.4	1.9	4.2
Cyprus	745	1.7	0.8	0.9	4.6	9.0	6.8	14.2	3.1	59.0	17.0	1.7	2.2	56.8	1.9	1.6
Czech Republic	843	12.3	2.7	1.7	7.8	4.5	15.2	22.3	3.0	30.6	29.0	12.3	2.3	28.3	12.4	12.1
Denmark	549	3.5	1.5	0.3	4.3	5.1	14.4	26.7	2.0	42.4	14.6	3.5	6.2	36.2	4.1	2.8
England	446	16.7	3.4	0.3	21.4	2.7	7.4	20.8	6.4	21.0	44.4	16.7	0.6	20.4	21.4	12.7
France	734	4.6	1.4	0.2	11.5	4.4	9.7	19.1	5.6	43.6	22.0	4.6	2.5	41.1	5.0	4.4
Germany	704	9.6	3.5	1.5	6.0	2.3	20.3	10.7	2.2	44.0	22.9	9.6	3.9	40.1	11.1	8.1
Greece	973	4.6	3.3	0.7	4.3	4.9	16.1	15.6	3.7	46.8	17.8	4.6	3.0	43.8	5.8	3.5
Hong Kong	843	4.7	2.2	1.4	12.5	3.1	22.2	19.4	7.0	27.5	23.9	4.7	0.1	27.3	6.1	3.5
Hungary	768	4.7	2.8	1.0	10.5	7.1	10.1	15.4	1.4	47.1	26.0	4.7	4.5	42.6	5.9	3.5
Iceland	491	3.6	2.3	0.0	10.3	3.0	18.9	39.3	4.1	18.5	19.2	3.6	1.5	17.0	6.0	1.2
Iran, Islamic Rep.	924	3.5	0.6	2.0	0.3	15.6	0.5	29.2	2.6	45.6	22.0	3.5	1.9	43.7	4.5	2.8
Ireland	756	7.9	1.7	0.4	17.1	1.0	14.7	16.0	8.7	32.5	28.1	7.9	0.3	32.2	8.9	6.9
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1279	15.0	3.4	0.0	29.9	15.1	6.0	14.3	3.6	12.6	63.4	15.0	0.3	12.3	17.6	12.5
Korea	726	22.8	6.7	2.7	13.5	8.7	6.2	16.3	0.0	23.1	54.5	22.8	0.3	22.8	22.4	23.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	655	1.8	2.6	3.2	1.9	5.1	12.8	21.0	5.3	46.2	14.6	1.8	6.7	39.5	3.1	0.5
Lithuania	641	1.5	0.3	0.1	1.3	5.6	9.1	14.1	1.7	66.3	8.8	1.5	12.5	53.8	2.7	0.3
Netherlands	532	12.9	4.3	0.8	8.3	1.3	15.0	37.8	7.1	12.6	27.6	12.9	0.5	12.0	16.5	8.8
New Zealand	801	16.2	2.7	0.3	9.0	12.9	13.6	17.2	0.8	27.1	41.2	16.2	0.6	26.5	19.5	13.6
Norway	615	9.1	1.9	0.4	20.7	1.8	28.8	8.7	7.6	21.0	33.9	9.1	2.2	18.7	9.1	9.1
Philippines	1458	9.1	1.5	0.8	2.1	1.5	4.6	30.6	7.0	42.8	15.0	9.1	0.8	42.0	10.2	7.9
Portugal	829	0.8	0.9	0.5	2.1	1.9	6.9	40.2	3.9	42.8	6.2	0.8	4.4	38.4	0.7	0.8
Romania	918	3.7	3.3	1.4	4.3	6.9	5.2	17.4	2.0	55.9	19.5	3.7	6.0	49.9	3.7	3.7
Russian Federation	1049	2.7	2.5	0.9	4.6	7.1	6.7	9.2	7.8	58.4	17.8	2.7	8.4	50.1	2.3	3.1
Scotland	716	14.1	2.0	0.7	7.2	6.4	7.9	26.4	3.7	31.6	30.4	14.1	1.1	30.5	19.0	9.7
Singapore	944	19.2	1.2	0.6	20.6	1.4	18.2	10.3	2.9	25.7	43.0	19.2	0.3	25.4	20.7	17.7
Slovak Republic	907	8.7	1.3	1.1	6.2	4.1	12.9	32.2	2.9	30.7	21.3	8.7	1.6	29.0	8.8	8.7
Slovenia	722	15.0	5.2	1.1	10.5	9.7	9.6	18.3	2.4	28.1	41.6	15.0	0.5	27.6	16.8	13.0
South Africa	1371	2.1	1.3	0.1	0.7	3.0	2.0	21.9	2.1	66.8	7.2	2.1	5.6	61.2	1.9	2.3
Spain	928	5.2	1.7	0.4	8.2	2.4	10.2	21.4	1.8	48.8	17.8	5.2	4.2	44.6	4.5	6.0
Sweden	716	6.7	1.6	0.2	16.7	0.6	21.9	25.1	8.0	19.1	25.9	6.7	2.1	17.0	6.9	6.7
Switzerland	1014	8.2	3.6	1.8	8.3	1.7	32.7	12.6	3.3	27.9	23.6	8.2	2.1	25.8	8.0	8.3
Thailand	1474	4.0	1.3	1.2	4.4	0.5	20.4	46.4	0.8	21.0	11.3	4.0	0.5	20.6	4.1	3.7
United States	967	10.7	2.8	0.5	20.0	5.2	13.2	27.3	2.9	17.4	39.2	10.7	0.4	17.0	10.8	10.6
INTERNATIONAL AVG	.	8.2	2.6	0.9	9.5	4.9	12.9	22.2	3.6	35.2	26.1	8.2	2.9	32.3	9.2	7.2

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: X02A  
 Explain why a plant is important in aquarium ecosystem. (Life Science)  
 Difficulty: 474

COUNTRY	N	10	11	12	13	19	70	79	90	99	V1	NOT	1.GIRL	2.BOY	
												REACH			% Right
												ED			
Australia	1400	20.5	4.3	24.3	4.3	1.3	21.4	10.2	1.8	11.9	54.7	6.9	5.0	53.9	55.6
Austria	759	55.0	7.0	11.7	5.6	0.3	5.8	4.3	3.2	7.1	79.6	3.5	3.6	82.7	76.2
Belgium (Fl)	701	37.8	13.8	6.3	1.7	2.1	12.3	13.1	1.4	11.5	61.8	5.9	5.6	59.3	64.1
Belgium (Fr)	572	0.0	0.0	0.0	0.0	43.1	0.0	29.5	0.0	27.4	43.1	16.1	11.3	40.6	47.1
Bulgaria	364	52.4	2.7	7.3	0.9	1.3	2.6	3.9	0.9	28.1	64.6	21.9	6.2	66.8	62.0
Canada	2050	28.8	5.2	17.9	3.3	2.0	22.8	7.6	2.7	9.7	57.2	6.3	3.4	58.1	56.3
Colombia	659	13.3	0.5	26.9	1.0	5.8	4.4	16.1	2.3	29.6	47.6	23.7	5.8	48.3	47.1
Cyprus	745	44.0	0.3	6.8	0.3	4.9	4.3	7.6	1.0	30.9	56.2	23.9	6.9	60.0	53.3
Czech Republic	843	48.9	6.0	9.1	1.9	3.5	8.9	6.3	2.5	13.0	69.3	8.0	4.9	68.9	69.7
Denmark	548	49.7	1.3	3.8	3.0	4.1	7.4	5.9	0.5	24.3	61.9	17.0	7.3	58.1	65.8
England	446	36.4	3.6	16.0	3.3	5.1	19.0	6.6	2.4	7.8	64.4	4.3	3.4	63.0	65.5
France	734	37.8	0.7	7.3	2.4	3.2	11.2	10.8	1.3	25.3	51.5	16.7	8.5	54.1	49.0
Germany	703	56.0	5.9	5.9	2.4	1.6	4.6	3.4	1.1	19.1	71.8	12.2	6.9	73.8	71.2
Greece	973	14.9	0.3	26.9	2.2	1.1	22.7	6.6	1.8	23.3	45.5	16.8	6.5	44.7	46.4
Hong Kong	841	22.2	2.1	3.9	0.9	4.0	28.5	14.8	1.5	22.2	33.0	12.9	9.3	31.1	34.7
Hungary	768	43.2	6.0	14.3	2.0	0.5	10.0	3.6	0.8	19.7	65.8	13.3	6.4	61.6	69.9
Iceland	490	22.6	3.0	11.1	4.0	1.3	23.7	12.9	1.6	19.7	42.1	8.4	11.3	40.5	43.6
Iran, Islamic Rep.	924	7.1	1.4	22.1	0.8	5.7	5.5	17.6	1.1	38.6	37.2	23.2	15.4	40.5	34.6
Ireland	756	30.0	1.3	14.5	3.9	1.2	29.2	8.4	3.0	8.6	50.9	4.9	3.7	49.6	52.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1279	59.7	2.8	4.3	8.1	6.8	8.0	4.3	1.1	5.0	81.6	2.9	2.1	80.0	83.2
Korea	726	21.2	3.5	21.4	3.3	6.1	12.8	21.2	0.0	10.6	55.4	6.8	3.8	51.7	58.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	657	25.7	1.1	16.8	1.0	3.8	16.2	3.9	1.6	29.8	48.4	20.0	9.8	51.9	44.6
Lithuania	641	27.6	2.7	6.3	1.8	1.2	5.5	9.4	2.2	43.3	39.7	35.7	7.6	45.4	34.1
Netherlands	532	49.0	3.3	9.6	0.3	0.7	4.9	11.0	7.7	13.5	62.9	4.5	9.0	60.7	65.6
New Zealand	803	40.7	5.0	16.2	3.0	3.6	15.8	4.9	1.5	9.3	68.6	5.6	3.6	66.1	70.6
Norway	615	44.9	8.9	8.2	2.9	1.2	9.0	7.5	5.0	12.3	66.2	7.4	4.9	70.8	61.3
Philippines	1458	25.7	5.2	22.2	1.4	1.9	4.9	14.7	4.6	19.5	56.4	15.1	4.4	58.4	54.2
Portugal	829	31.7	0.6	19.2	1.0	2.6	11.4	9.9	2.5	20.9	55.2	14.5	6.4	56.0	54.5
Romania	918	35.9	0.2	10.1	1.3	2.3	3.9	8.5	0.4	37.4	49.8	28.5	9.0	49.8	49.9
Russian Federation	1049	35.3	3.9	8.8	1.7	2.5	2.7	4.5	3.2	37.4	52.2	30.1	7.3	52.8	51.6
Scotland	716	20.1	2.4	15.3	4.7	1.4	33.5	8.5	2.0	12.1	43.9	7.0	5.1	43.8	43.9
Singapore	944	80.9	0.2	4.7	0.6	4.1	1.3	3.9	0.2	4.0	90.6	2.9	1.1	89.9	91.2
Slovak Republic	440	43.2	1.3	6.0	1.4	9.5	10.5	3.3	0.9	23.8	61.4	13.2	10.6	58.0	65.2
Slovenia	722	51.0	4.2	11.6	3.0	5.1	8.6	4.9	0.7	11.0	74.9	5.3	5.7	75.5	74.2
South Africa	1371	11.4	0.0	11.9	1.5	1.3	3.6	21.7	1.7	46.9	26.1	41.1	5.8	26.9	25.7
Spain	928	29.6	1.1	15.1	3.2	2.9	23.0	5.1	0.3	19.8	51.8	15.5	4.4	50.5	53.1
Sweden	716	44.7	1.5	11.8	3.4	0.7	14.4	6.2	3.9	13.5	62.0	6.2	7.3	60.6	63.0
Switzerland	1014	37.9	5.1	14.7	8.2	0.4	13.7	6.0	2.5	11.5	66.2	6.2	5.4	68.4	64.0
Thailand	1474	30.0	0.5	35.5	5.9	5.2	4.5	11.7	0.1	6.6	77.1	4.6	2.1	78.2	75.8
United States	967	28.9	3.8	19.5	7.3	1.5	21.0	9.0	1.1	7.9	61.0	3.9	4.0	60.1	62.0
INTERNATIONAL AVG	.	34.9	3.1	13.1	2.7	3.9	11.8	9.2	1.9	19.3	57.7	13.1	6.3	57.8	57.8

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: X02B  
 Explain why light is important in aquarium ecosystem. (Life Science)  
 Difficulty: 685

COUNTRY	N	NOT REACH ED										OMIT	1. GIRL % Right	2. BOY % Right	
		10	11	19	70	71	72	79	90	99	V1				
Australia	1400	3.2	0.7	8.2	20.1	4.9	19.6	28.3	2.1	13.0	12.1	9.6	3.3	12.5	11.6
Austria	759	19.9	0.5	24.5	7.5	2.5	8.8	22.4	3.3	10.7	44.8	5.0	5.7	44.1	45.5
Belgium (Fl)	701	2.5	1.5	22.1	13.8	2.7	12.3	28.7	1.3	15.1	26.0	10.5	4.6	23.2	28.8
Belgium (Fr)	572	0.0	0.0	15.2	0.0	0.0	0.0	53.2	0.0	31.6	15.2	23.5	8.1	14.2	16.7
Bulgaria	364	32.9	0.7	19.7	1.9	1.0	0.0	7.7	2.3	33.9	53.2	26.4	7.4	55.5	50.8
Canada	2050	6.7	2.5	9.7	25.2	3.8	18.9	22.0	0.6	10.6	18.8	7.8	2.8	18.6	18.9
Colombia	659	5.0	2.0	6.6	7.3	2.8	3.1	33.8	1.4	38.1	13.6	28.7	9.4	12.4	14.8
Cyprus	744	35.7	0.8	5.4	9.3	3.5	3.0	5.5	0.6	36.1	41.9	29.0	7.1	42.9	41.5
Czech Republic	843	13.7	1.2	19.3	10.6	2.2	12.8	20.2	3.2	16.8	34.1	9.8	7.0	35.6	32.6
Denmark	548	4.2	0.7	16.6	11.5	1.7	12.1	19.9	1.0	32.3	21.5	22.7	9.5	16.4	26.3
England	446	4.7	1.3	8.2	26.7	5.4	19.5	21.8	3.0	9.4	14.2	5.4	4.0	10.5	17.3
France	734	3.8	2.9	15.4	13.9	2.2	8.8	18.0	2.0	32.9	22.1	23.6	9.4	20.3	23.8
Germany	704	10.9	3.0	24.0	13.4	1.8	8.7	11.9	1.9	24.5	37.8	15.3	9.2	36.7	39.7
Greece	972	15.7	2.7	9.9	15.9	2.1	5.0	19.6	1.9	27.1	28.3	20.3	6.8	28.5	28.1
Hong Kong	840	6.9	0.3	2.4	15.3	9.5	12.3	26.5	1.4	25.4	9.6	20.0	5.4	5.9	12.5
Hungary	768	21.8	0.5	17.0	8.4	0.7	4.1	22.4	1.1	24.1	39.2	16.0	8.1	40.4	38.1
Iceland	490	0.1	0.6	6.3	21.9	3.2	2.9	41.2	1.2	22.7	7.0	16.0	6.7	4.5	9.4
Iran, Islamic Rep.	924	1.4	2.5	19.4	9.7	7.0	1.8	18.5	1.3	38.4	23.4	34.6	3.8	29.3	18.6
Ireland	756	1.8	1.4	7.5	30.6	7.6	12.6	23.4	3.0	12.0	10.7	5.7	6.3	8.6	12.8
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1279	49.7	0.0	6.6	5.0	1.9	9.1	20.0	1.4	6.3	56.2	4.0	2.3	52.2	60.0
Korea	726	25.3	13.5	9.4	7.5	7.7	5.9	20.7	0.0	10.1	48.2	8.4	1.7	41.3	53.3
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	657	3.5	2.2	2.7	25.6	2.6	10.5	19.8	3.6	29.6	8.4	25.6	4.0	7.9	9.0
Lithuania	641	9.3	0.9	13.0	3.9	0.5	6.6	10.4	1.1	54.3	23.2	41.2	13.1	26.4	20.0
Netherlands	532	6.3	1.7	10.1	6.9	4.7	14.6	32.2	6.8	16.7	18.1	13.0	3.8	13.5	23.3
New Zealand	803	1.2	0.2	8.2	30.7	6.3	21.5	17.8	0.8	13.3	9.6	8.2	5.0	7.0	11.7
Norway	615	3.1	4.4	10.9	14.2	1.1	14.7	26.6	7.4	17.6	18.4	10.1	7.5	15.2	21.9
Philippines	1458	10.1	8.3	3.1	19.1	3.6	2.6	24.3	3.4	25.4	21.5	18.4	7.0	24.6	17.9
Portugal	829	9.7	2.2	15.4	14.4	2.2	3.3	26.0	2.9	24.0	27.2	18.2	5.9	27.3	27.2
Romania	918	18.6	2.1	9.5	8.5	1.2	1.7	15.3	0.9	42.2	30.2	33.9	8.3	30.6	29.9
Russian Federation	1049	18.6	0.5	10.8	6.9	0.0	4.8	9.4	5.8	43.1	29.9	33.7	9.4	28.4	31.5
Scotland	716	1.1	0.5	4.1	34.4	6.6	10.1	27.8	1.6	13.8	5.7	9.8	4.0	3.2	8.2
Singapore	944	56.2	0.6	7.8	11.0	7.3	4.0	7.8	0.2	5.0	64.7	3.8	1.1	65.5	63.9
Slovak Republic	439	10.1	0.6	11.6	9.7	2.4	10.5	24.6	1.1	29.4	22.3	21.3	8.0	20.1	24.8
Slovenia	722	17.0	4.1	14.9	14.7	2.6	9.5	25.4	0.8	11.0	35.9	8.6	2.4	34.1	38.0
South Africa	1371	1.4	0.4	2.8	7.2	8.4	3.4	24.2	1.5	50.7	4.6	44.6	6.1	5.2	4.0
Spain	928	12.5	1.2	12.6	23.6	5.9	3.9	18.3	0.4	21.5	26.3	17.4	4.1	21.2	32.0
Sweden	716	2.4	2.4	12.0	7.5	3.0	17.8	38.2	3.5	13.1	16.8	11.0	2.1	14.8	19.0
Switzerland	1014	2.4	0.8	12.8	19.8	4.2	10.3	30.2	3.6	15.8	16.0	9.7	6.2	15.1	17.0
Thailand	1474	39.9	0.2	4.8	11.5	4.2	2.9	27.5	0.3	8.7	44.9	6.1	2.6	46.3	42.9
United States	967	4.1	3.6	12.8	26.2	3.9	22.1	17.7	0.8	8.7	20.5	6.9	1.9	19.9	21.2
INTERNATIONAL AVG	.	12.3	1.9	11.3	14.3	3.6	8.9	22.7	2.0	22.9	25.6	17.1	5.8	24.5	26.6

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: Y01  
 Explain amount of light/electric energy in a lamp. (Physics)  
 Difficulty: 963

COUNTRY	N	10	11	12	19	70	71	72	73	74	75	79	90	99	NOT REACH			1.GIRL % Right	2.BOY % Right	
															V1	ED	OMIT			
Australia	1396	1.6	0.1	0.8	0.2	26.7	10.0	21.4	9.1	1.3	20.6	0.1	0.8	7.3	2.6	1.0	6.4	2.4	2.8	
Austria	758	7.4	0.6	1.0	0.6	18.0	16.7	20.8	13.2	2.9	12.3	0.2	0.7	5.6	9.6	1.8	3.9	5.9	13.6	
Belgium (Fl)	687	4.2	0.5	0.6	1.3	22.6	20.4	20.0	11.8	0.9	9.7	1.3	0.2	6.5	6.6	0.1	6.4	4.7	8.5	
Belgium (Fr)	582	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	19.0	58.3	0.0	20.7	2.0	2.1	18.6	1.7	2.4	
Bulgaria	334	6.3	0.4	0.6	0.4	13.2	21.1	14.2	7.0	0.2	3.4	0.4	0.0	33.0	7.6	7.1	25.9	6.9	8.3	
Canada	2038	1.6	1.6	0.7	0.9	26.1	7.6	25.3	8.8	1.6	17.0	0.4	2.2	6.3	4.8	0.3	6.0	4.9	4.8	
Colombia	670	0.5	0.1	0.1	1.5	17.3	15.4	19.5	4.6	0.0	7.6	3.4	0.3	29.7	2.1	16.9	12.9	2.5	1.5	
Cyprus	762	1.0	0.1	0.1	0.5	20.0	15.7	29.5	13.6	0.4	6.5	1.4	0.9	10.4	1.6	1.1	9.3	1.6	1.7	
Czech Republic	823	2.5	0.5	0.2	1.7	32.2	14.2	15.6	9.8	0.9	14.3	0.0	0.2	7.8	4.9	1.1	6.7	2.7	7.2	
Denmark	552	0.2	0.2	0.0	1.0	4.8	19.7	18.2	17.4	0.5	2.4	0.3	2.3	33.2	1.3	8.0	25.1	1.3	1.5	
England	444	3.5	0.9	2.3	0.2	35.1	6.5	24.8	5.2	3.0	15.0	0.1	1.4	2.0	6.9	0.0	2.0	4.1	9.2	
France	752	0.3	0.3	0.4	0.3	25.6	20.6	16.7	9.2	0.8	8.0	0.4	1.2	16.3	1.3	3.0	13.3	2.4	0.3	
Germany	728	2.1	1.2	1.3	1.1	20.4	14.0	19.2	9.4	1.2	7.9	0.7	2.3	19.3	5.7	5.2	14.2	4.0	7.8	
Greece	1006	0.5	0.3	0.3	1.0	18.2	13.3	27.1	9.4	0.9	7.0	1.4	1.7	19.0	2.0	2.7	16.3	2.3	1.8	
Hong Kong	852	2.8	1.0	0.3	1.1	30.8	15.9	22.5	11.6	2.5	8.8	0.0	0.4	2.3	5.2	0.1	2.1	4.5	5.8	
Hungary	758	2.5	1.0	0.4	1.3	28.7	17.9	14.7	5.7	0.8	3.7	0.9	1.1	21.5	5.1	5.0	16.5	1.6	8.4	
Iceland	489	0.7	0.0	0.0	0.5	19.0	16.7	21.4	11.3	1.0	19.0	0.2	1.8	8.4	1.3	2.4	6.0	1.1	1.4	
Iran, Islamic Rep.	931	4.8	1.3	0.5	2.0	16.7	16.8	20.2	15.3	3.2	4.9	2.7	1.1	10.5	8.6	1.2	9.3	5.9	10.7	
Ireland	774	0.8	0.4	0.1	1.3	26.9	12.1	22.1	8.4	1.6	20.8	0.2	0.8	4.5	2.6	0.4	4.1	3.1	2.0	
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1289	0.5	0.0	0.4	1.1	35.5	7.3	18.9	8.6	0.7	24.9	0.0	0.2	1.8	2.1	0.1	1.8	1.8	2.3	
Korea	722	3.4	0.8	6.2	4.9	32.3	2.9	23.3	1.0	1.8	10.8	5.4	0.0	7.2	15.3	0.3	7.0	13.1	16.9	
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	632	0.6	0.6	0.0	0.9	8.5	19.1	21.6	13.9	0.2	5.0	0.1	2.7	26.9	2.1	5.1	21.8	2.1	2.1	
Lithuania	627	0.7	0.3	0.1	0.4	7.6	10.6	13.0	6.5	0.0	3.0	2.6	1.0	54.2	1.5	13.6	40.6	1.7	1.2	
Netherlands	524	0.8	1.2	0.8	1.6	18.2	12.2	25.4	15.1	1.0	16.8	0.0	1.6	5.2	4.4	0.4	4.9	3.1	5.8	
New Zealand	781	0.9	0.0	0.3	0.1	30.1	11.7	20.9	6.8	1.7	19.2	0.6	1.0	6.7	1.3	0.7	6.0	0.3	2.1	
Norway	607	0.6	0.3	0.0	0.1	19.2	13.5	32.3	13.0	0.3	10.6	0.1	2.6	7.3	1.1	2.3	5.0	0.3	1.8	
Philippines	1465	1.6	0.7	0.1	0.1	31.5	10.9	24.1	4.4	1.0	7.8	2.9	2.8	12.2	2.5	0.5	11.7	2.8	2.3	
Portugal	830	0.2	0.1	0.6	1.0	23.4	9.1	28.4	6.9	1.0	17.1	1.2	1.2	9.9	1.9	2.6	7.3	1.0	2.8	
Romania	929	1.2	0.9	0.7	0.9	17.2	19.3	14.8	8.4	0.1	3.4	3.3	0.5	29.4	3.7	7.6	21.8	3.9	3.4	
Russian Federation	1032	2.1	1.7	0.8	0.5	13.5	17.1	16.2	7.5	0.3	2.9	0.3	2.7	34.4	5.1	5.0	29.4	3.9	6.4	
Scotland	713	0.8	0.5	0.8	1.3	30.2	9.9	22.3	8.1	2.4	15.4	0.6	0.8	6.8	3.4	0.5	6.4	3.0	3.9	
Singapore	927	9.5	1.2	0.2	0.8	39.7	6.1	13.1	5.5	0.3	19.4	0.2	0.1	4.0	11.7	0.2	3.9	11.0	12.5	
Slovak Republic	885	3.5	1.2	0.2	1.5	25.4	12.4	23.0	9.4	0.4	4.5	1.9	0.7	16.0	6.3	3.3	12.7	4.6	8.3	
Slovenia	716	4.3	1.3	0.7	1.2	39.0	14.6	14.7	8.1	1.0	8.2	1.3	0.8	4.9	7.5	0.5	4.5	5.4	9.7	
South Africa	1325	0.1	0.4	0.2	0.8	11.4	8.2	21.0	8.0	0.4	7.1	11.5	3.0	27.9	1.5	4.3	23.6	1.7	1.2	
Spain	918	1.5	0.9	0.3	1.1	33.8	13.3	20.3	6.3	1.1	7.2	0.8	0.5	13.0	3.8	2.4	10.6	3.7	3.9	
Sweden	722	0.7	0.5	0.6	1.0	14.8	21.1	25.9	17.0	0.9	7.8	0.1	1.3	8.3	2.8	1.5	6.8	1.2	4.4	
Switzerland	1023	0.4	0.9	0.4	0.9	18.9	14.4	24.7	11.8	1.4	12.7	0.5	1.4	11.4	2.6	1.7	9.7	2.1	3.1	
Thailand	1451	0.5	0.2	0.4	0.2	26.5	7.8	29.2	7.0	0.9	22.3	0.5	0.7	4.0	1.3	0.3	3.6	1.1	1.6	
United States	964	0.4	0.5	0.8	0.1	30.4	6.9	27.0	5.8	1.9	21.4	0.4	0.9	3.5	1.8	0.3	3.2	1.6	2.0	
INTERNATIONAL AVG	.	1.9	0.6	0.6	1.0	22.7	13.1	20.8	9.0	1.1	11.4	2.7	1.1	14.0	4.1	2.8	11.2	3.3	4.9	

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: Y02  
 Explain temperature of melting snowball. (Physics)  
 Difficulty: 792

COUNTRY	N	20	29	10	19	70	71	72	79	90	99	V1	V2	NOT	1.GIRL	2.BOY	
														REACH			% Right
														ED	OMIT		
Australia	1396	7.1	1.3	18.8	12.2	26.9	3.4	2.8	14.6	0.8	12.1	39.4	8.4	3.9	8.3	7.5	9.4
Austria	758	9.6	2.9	14.5	22.7	13.9	4.3	2.9	13.4	1.9	13.9	49.7	12.5	3.2	10.7	13.7	11.1
Belgium (Fl)	687	17.9	2.5	10.6	17.3	17.7	5.8	3.8	14.8	0.6	8.9	48.3	20.5	1.8	7.1	22.7	18.3
Belgium (Fr)	582	0.0	11.5	0.0	26.8	0.0	0.0	0.0	39.6	0.0	22.1	38.3	11.5	9.1	13.0	13.0	10.4
Bulgaria	334	15.5	2.5	9.5	0.8	9.5	4.5	5.8	9.2	2.4	40.1	28.4	18.1	24.2	15.9	18.7	17.4
Canada	2038	10.8	2.0	14.0	17.4	20.5	3.0	3.0	13.7	0.9	14.7	44.2	12.8	3.4	11.4	12.1	13.5
Colombia	670	1.7	0.6	6.1	2.0	4.6	4.0	4.7	17.9	0.7	57.8	10.4	2.3	26.0	31.8	3.5	1.1
Cyprus	762	1.9	1.6	14.8	9.1	14.8	2.3	0.4	18.3	0.8	36.2	27.3	3.5	8.6	27.6	3.3	3.7
Czech Republic	823	8.0	3.6	17.6	10.4	12.8	7.8	3.6	18.7	0.5	17.1	39.6	11.5	5.1	12.1	13.0	9.9
Denmark	552	3.9	2.2	16.8	9.4	5.2	2.1	7.1	10.4	1.7	41.2	32.3	6.2	23.0	18.2	4.3	7.5
England	444	10.0	3.8	17.4	13.1	27.1	5.5	1.5	16.3	0.7	4.6	44.3	13.8	0.5	4.1	14.6	13.1
France	752	11.7	2.0	13.9	11.0	15.3	7.3	2.7	11.8	0.9	23.3	38.6	13.7	8.5	14.8	13.3	13.2
Germany	727	10.9	0.8	10.3	21.3	13.1	7.1	2.1	12.0	1.0	21.3	43.3	11.7	9.2	12.0	14.3	9.1
Greece	1004	7.6	1.5	17.4	8.2	17.6	5.7	3.2	13.0	1.8	24.2	34.6	9.0	11.5	12.8	8.0	10.1
Hong Kong	851	5.5	1.4	20.4	4.8	25.1	4.5	4.3	16.6	1.7	15.7	32.1	6.9	1.0	14.7	7.2	6.8
Hungary	758	5.4	0.9	16.4	2.3	33.5	5.5	4.3	9.7	0.4	21.6	25.0	6.3	11.3	10.4	6.0	6.6
Iceland	489	5.0	2.0	19.2	23.3	15.3	1.6	6.5	13.3	1.5	12.3	49.6	7.0	3.9	8.4	7.8	6.3
Iran, Islamic Rep.	931	1.2	0.7	1.7	17.6	3.5	4.4	10.1	32.0	1.9	26.9	21.2	2.0	8.6	18.3	1.5	2.3
Ireland	774	7.0	1.7	26.6	12.3	25.7	4.8	1.0	12.6	1.1	7.2	47.5	8.6	1.6	5.7	9.6	7.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	1289	8.9	0.4	18.9	41.3	9.1	1.7	0.9	10.7	0.4	7.7	69.5	9.3	1.2	6.6	9.6	9.0
Korea	722	17.2	3.3	18.2	11.0	14.6	3.9	0.5	20.2	0.0	11.0	49.8	20.6	3.5	7.5	16.1	24.1
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	632	6.3	1.7	11.5	13.6	5.5	5.3	4.5	14.1	3.0	34.5	33.1	8.0	16.8	17.6	10.4	5.5
Lithuania	627	5.2	0.5	10.6	7.9	2.6	2.1	3.8	14.0	0.3	52.8	24.3	5.7	36.6	16.2	7.3	4.2
Netherlands	524	12.6	0.2	6.2	19.6	8.6	5.7	6.4	20.1	9.1	11.4	38.6	12.8	2.4	9.0	16.6	8.8
New Zealand	781	11.7	7.9	13.9	10.1	22.4	5.1	4.6	10.0	0.8	13.5	43.7	19.6	3.1	10.4	20.6	18.8
Norway	607	10.7	0.0	18.8	11.9	19.0	5.0	6.0	13.5	3.8	11.1	41.5	10.7	3.3	7.8	12.2	9.3
Philippines	1466	3.9	1.6	4.2	1.0	19.0	1.6	4.0	23.6	4.0	37.4	10.6	5.5	11.1	26.3	4.9	6.1
Portugal	830	4.4	2.2	14.7	6.8	13.8	6.5	4.5	17.7	3.1	26.3	28.2	6.6	6.4	20.0	6.8	6.4
Romania	926	6.8	0.5	11.1	5.9	12.0	8.2	6.1	12.5	1.1	35.8	24.3	7.3	21.4	14.5	7.6	7.0
Russian Federation	1032	5.5	2.3	15.7	14.0	6.9	3.0	4.8	6.8	4.1	36.8	37.5	7.8	24.2	12.7	7.5	8.2
Scotland	713	8.2	5.9	12.7	15.8	19.7	4.6	1.8	15.8	1.1	14.4	42.6	14.1	2.8	11.6	13.6	14.4
Singapore	927	11.9	3.9	22.0	6.3	40.7	1.1	1.3	4.5	0.3	8.0	44.1	15.7	1.8	6.3	13.6	17.9
Slovak Republic	885	6.8	5.9	11.0	9.1	13.4	7.1	3.3	19.4	1.4	22.6	32.9	12.7	9.9	12.6	12.3	13.1
Slovenia	716	5.0	4.6	14.7	13.9	13.0	6.8	2.0	20.3	0.7	19.0	38.2	9.6	3.7	15.3	9.7	9.5
South Africa	1325	3.5	1.5	3.3	5.8	3.4	0.7	3.0	21.2	1.9	55.6	14.2	5.0	24.7	30.9	7.2	2.6
Spain	918	5.9	1.4	15.6	9.7	21.2	4.3	4.3	13.0	0.1	24.3	32.7	7.3	8.4	15.9	7.4	7.2
Sweden	722	10.2	0.4	24.3	11.3	9.9	5.4	7.9	16.3	2.9	11.4	46.2	10.6	4.4	7.0	12.8	8.6
Switzerland	1023	10.6	1.6	18.8	20.1	9.1	6.3	2.3	18.9	1.5	10.8	51.1	12.3	4.4	6.4	12.3	12.0
Thailand	1451	7.6	2.9	28.7	2.9	25.4	2.0	4.4	8.4	0.0	17.7	42.1	10.5	3.0	14.7	9.9	11.0
United States	964	19.1	1.2	21.2	0.6	28.2	3.2	2.3	14.0	0.8	9.4	42.1	20.3	1.8	7.6	22.4	18.3
INTERNATIONAL AVG	.	8.1	2.4	14.6	12.0	15.5	4.3	3.7	15.6	1.5	22.3	37.0	10.5	9.0	13.3	10.9	10.0

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: Z01A  
 Explain why steel bridges must be painted. (Chemistry)  
 Difficulty: 516

COUNTRY	N	NOT REACH ED										OMIT	1. GIRL % Right	2. BOY % Right	
		10	19	70	71	72	73	79	90	99	V1				
Australia	690	67.0	1.4	5.4	3.4	0.0	0.4	10.2	1.4	10.8	68.4	2.4	8.3	65.8	70.8
Austria	380	67.2	0.0	4.6	2.8	0.0	0.8	10.1	2.4	12.1	67.2	1.1	11.1	61.7	71.8
Belgium (Fl)	336	74.4	3.7	3.5	2.5	0.0	0.0	11.0	0.6	4.3	78.0	0.6	3.6	74.1	82.0
Belgium (Fr)	287	0.0	47.4	0.0	0.0	0.0	0.0	24.0	0.0	28.7	47.4	1.8	26.9	41.1	53.0
Bulgaria	175	56.1	0.8	0.9	0.0	0.0	0.0	3.2	1.2	37.8	56.9	13.7	24.1	60.4	52.3
Canada	1015	59.0	1.7	9.1	3.1	0.4	0.8	13.2	2.5	10.3	60.6	0.7	9.6	52.9	67.1
Colombia	340	25.6	5.4	7.8	3.0	0.0	0.2	21.2	0.7	36.1	31.0	15.8	20.3	28.9	33.1
Cyprus	388	36.6	8.4	6.7	0.0	0.2	0.0	16.1	1.6	30.3	45.0	6.0	24.3	46.6	43.6
Czech Republic	411	79.2	2.2	3.0	0.1	0.0	0.4	3.6	1.3	10.2	81.3	1.8	8.4	81.4	81.3
Denmark	279	44.6	1.0	6.2	3.0	0.4	0.5	7.1	0.7	36.6	45.6	6.8	29.7	41.2	51.5
England	230	69.1	7.5	6.6	2.7	0.2	0.0	5.5	3.5	5.0	76.6	0.5	4.5	74.8	78.1
France	384	42.6	2.6	9.3	2.3	0.0	0.0	11.6	2.4	29.1	45.3	4.2	24.9	40.3	50.1
Germany	367	61.1	1.8	2.1	1.2	0.0	0.9	4.9	1.9	26.0	62.9	7.1	18.9	59.5	66.9
Greece	503	60.7	2.0	7.8	1.2	0.2	0.2	8.6	2.5	16.9	62.7	2.4	14.4	62.5	63.3
Hong Kong	433	39.8	4.4	6.6	3.6	0.2	0.0	16.8	2.5	26.1	44.2	2.6	23.4	46.8	41.8
Hungary	376	57.7	1.3	5.2	3.9	0.0	0.0	9.5	0.2	22.1	59.0	3.9	18.3	56.6	61.2
Iceland	240	59.2	2.2	6.0	0.9	0.0	1.4	14.1	2.7	13.6	61.3	1.2	12.4	54.4	67.4
Iran, Islamic Rep.	476	55.6	1.2	3.8	0.8	0.0	0.0	13.8	0.0	24.8	56.8	2.6	22.2	62.0	53.0
Ireland	398	76.7	3.1	4.6	2.4	0.2	0.5	6.5	1.5	4.5	79.8	0.9	3.6	79.2	80.5
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	24.3	0.0	25.7	5.8	0.1	0.0	28.5	0.9	14.8	24.3	1.0	13.8	21.5	26.9
Korea	362	25.0	8.3	23.5	10.9	0.7	0.0	22.3	0.0	9.2	33.3	1.0	8.2	31.8	34.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	313	52.9	2.6	9.6	0.5	0.3	0.8	5.4	0.5	27.5	55.5	10.4	17.1	50.8	60.3
Lithuania	309	37.8	0.5	5.2	0.3	0.8	0.7	9.2	0.7	44.9	38.2	18.0	26.9	32.8	43.1
Netherlands	248	70.2	4.4	7.2	0.0	0.0	0.0	6.9	7.9	3.4	74.6	0.2	3.2	69.5	79.9
New Zealand	387	59.2	1.1	5.8	15.7	0.2	0.8	6.4	0.0	10.8	60.4	1.1	9.7	62.1	58.6
Norway	304	62.1	0.0	6.5	6.9	0.3	0.5	4.3	7.9	11.5	62.1	1.6	9.9	59.8	64.4
Philippines	740	23.1	0.7	15.4	1.5	0.4	0.7	26.6	6.1	25.5	23.8	7.8	17.7	26.0	21.4
Portugal	424	48.5	4.4	7.7	5.1	0.2	0.6	15.1	3.2	15.2	52.9	2.1	13.1	44.7	61.9
Romania	469	49.4	1.1	3.7	1.6	0.0	0.4	9.7	0.7	33.3	50.6	12.1	21.3	49.7	51.6
Russian Federation	510	46.6	3.3	5.3	4.3	0.0	0.4	6.1	4.0	30.1	49.9	8.1	22.0	40.7	59.8
Scotland	352	66.7	2.8	7.3	0.6	0.0	0.0	13.6	1.2	7.8	69.5	2.0	5.8	65.2	73.5
Singapore	445	84.3	0.3	4.9	3.9	0.0	0.0	2.5	0.9	3.3	84.6	0.0	3.3	86.4	82.7
Slovak Republic	444	61.2	2.5	1.6	5.4	0.2	0.4	6.7	1.3	20.6	63.8	3.9	16.8	61.0	66.9
Slovenia	365	67.2	3.6	4.0	1.1	0.3	0.3	6.5	0.5	16.5	70.8	1.3	15.2	66.2	75.7
South Africa	647	13.1	1.5	5.3	0.9	0.0	0.0	31.0	1.4	46.9	14.5	21.8	25.1	17.8	10.2
Spain	457	52.1	2.6	4.5	6.3	0.2	0.8	9.4	1.2	23.0	54.6	3.3	19.8	55.1	54.2
Sweden	359	65.3	0.2	5.1	7.4	1.0	1.0	3.9	7.7	8.3	65.6	1.1	7.3	68.6	62.5
Switzerland	515	59.6	1.9	7.2	3.7	0.0	0.6	4.4	5.3	17.2	61.6	3.9	13.4	56.9	66.9
Thailand	725	64.1	1.8	12.8	1.0	0.5	0.0	14.5	0.6	4.6	65.9	1.1	3.5	65.6	67.3
United States	473	56.6	2.8	7.2	4.6	0.0	0.5	14.5	3.6	10.1	59.4	0.2	9.9	59.2	59.6
INTERNATIONAL AVG	.	53.0	3.6	6.9	3.1	0.2	0.4	11.5	2.1	19.2	56.6	4.4	14.8	54.5	58.8

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent



Item: Z01B  
 Describe a consequence of using longer-lasting paint on bridge requiring year-round paint (Chemistry)  
 Difficulty: 636

COUNTRY	N	NOT REACH ED										OMIT	1. GIRL % Right	2. BOY % Right	
		10	11	12	19	70	76	79	90	99	V1				
Australia	690	6.8	20.3	8.5	0.1	4.5	4.6	29.4	3.2	22.7	35.7	5.9	16.8	34.0	37.3
Austria	380	4.8	33.6	1.6	0.6	4.4	2.4	25.6	5.4	21.6	40.6	6.7	15.0	42.9	37.2
Belgium (Fl)	336	21.5	38.1	1.7	0.6	8.5	4.0	18.6	0.5	6.5	61.8	2.0	4.5	61.2	62.5
Belgium (Fr)	287	0.0	0.0	0.0	29.7	0.0	0.0	36.9	0.0	33.3	29.7	12.5	20.8	30.1	28.2
Bulgaria	175	21.7	18.4	0.0	1.8	7.5	1.9	6.0	0.7	42.2	41.8	26.5	15.6	42.5	40.9
Canada	1015	5.6	13.1	10.0	1.7	6.9	3.6	36.4	5.2	17.4	30.5	4.7	12.7	26.7	33.8
Colombia	340	1.6	2.8	1.3	0.5	13.6	7.3	28.8	0.2	43.8	6.2	26.6	17.2	5.1	7.7
Cyprus	388	7.1	12.3	1.5	0.0	6.6	1.6	26.0	0.5	44.4	20.9	21.6	22.8	19.3	22.4
Czech Republic	411	8.8	31.9	1.3	1.0	16.7	7.0	12.8	2.2	18.3	43.0	5.4	12.8	47.1	39.1
Denmark	279	7.5	25.1	0.4	0.0	10.2	3.0	6.3	0.0	47.5	33.0	21.8	25.7	30.4	36.5
England	230	10.1	21.6	8.8	2.4	12.1	3.0	23.9	3.4	14.7	42.8	1.4	13.3	39.4	45.9
France	384	6.3	18.8	0.3	1.1	7.4	5.0	17.5	1.5	42.1	26.5	15.3	26.8	23.1	30.0
Germany	367	7.9	33.2	0.7	1.0	4.8	3.1	8.1	2.2	39.0	42.8	13.5	25.4	43.4	41.4
Greece	503	9.7	10.6	0.3	2.3	7.4	5.2	23.0	5.5	36.0	22.9	8.9	27.1	23.3	22.6
Hong Kong	433	9.2	24.2	1.1	2.2	9.9	3.7	18.1	2.4	29.0	36.8	15.0	14.0	34.1	38.7
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	241	15.7	17.2	3.0	1.5	9.0	3.3	22.7	2.7	24.9	37.5	9.8	15.1	40.6	34.7
Iran, Islamic Rep.	476	4.3	23.6	0.0	0.3	11.4	3.4	27.2	1.9	27.9	28.2	10.9	17.0	27.0	29.1
Ireland	398	9.9	18.8	5.7	1.6	12.6	5.7	34.0	4.3	7.5	36.0	2.0	5.4	33.8	38.2
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	5.6	37.6	1.3	3.3	2.6	8.4	17.2	0.1	23.8	47.8	6.0	17.8	46.5	49.0
Korea	362	30.0	29.4	2.0	3.9	9.6	4.0	15.1	0.0	6.1	65.3	4.0	2.1	63.6	66.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	313	7.1	15.5	0.0	0.5	4.7	4.5	15.1	3.3	49.2	23.1	21.7	27.5	25.1	21.1
Lithuania	309	3.2	15.1	0.0	1.4	0.0	0.0	15.3	2.0	62.9	19.7	35.8	27.1	21.6	18.0
Netherlands	248	10.1	48.0	1.5	1.2	0.0	3.2	20.9	8.2	6.9	60.8	1.0	5.8	57.4	64.3
New Zealand	387	9.3	31.4	2.5	0.4	15.5	4.1	17.4	0.8	18.7	43.6	4.3	14.4	41.6	45.6
Norway	304	9.5	16.0	3.1	0.0	16.7	2.9	20.7	9.0	22.0	28.6	4.9	17.1	28.8	28.4
Philippines	740	13.4	0.5	0.0	0.8	3.6	6.1	27.7	4.2	43.6	14.7	20.4	23.2	15.6	13.8
Portugal	424	8.6	13.1	0.3	0.4	18.1	5.6	26.6	3.3	24.1	22.4	8.0	16.1	21.4	23.5
Romania	469	6.2	9.0	0.8	1.1	7.5	2.6	19.7	0.7	52.4	17.1	27.0	25.5	17.3	17.0
Russian Federation	510	5.7	28.4	0.8	2.4	1.6	4.1	7.1	4.9	45.0	37.3	22.0	23.0	33.5	41.4
Scotland	352	7.4	21.7	6.0	0.7	9.3	5.3	31.4	3.8	14.5	35.8	4.5	10.0	30.0	41.1
Singapore	445	17.5	20.5	1.4	0.0	13.7	3.9	33.3	0.9	8.9	39.3	2.5	6.4	39.6	38.9
Slovak Republic	444	18.0	7.6	0.0	8.0	17.8	3.1	17.7	2.2	25.7	33.6	10.1	15.6	34.4	32.6
Slovenia	365	13.8	25.6	1.0	0.6	3.5	2.8	22.1	2.7	27.8	41.0	9.6	18.2	41.9	40.1
South Africa	647	1.8	1.3	0.1	0.4	4.7	2.1	27.3	1.8	60.5	3.6	41.8	18.7	3.4	3.9
Spain	457	11.8	16.1	0.4	1.2	14.2	6.8	18.2	0.2	31.1	29.6	7.9	23.2	29.1	30.0
Sweden	359	13.3	47.2	1.1	0.5	9.5	1.5	13.4	4.7	8.8	62.2	4.7	4.1	66.1	58.7
Switzerland	515	7.2	31.6	0.3	0.6	5.6	2.8	21.3	6.1	24.7	39.6	9.9	14.8	33.0	46.7
Thailand	725	12.1	32.8	2.7	1.3	11.3	2.1	29.7	1.3	6.6	48.9	2.9	3.7	52.8	43.2
United States	473	4.5	16.4	6.3	1.1	6.1	3.0	47.4	4.5	10.8	28.3	4.5	6.3	27.5	29.0
INTERNATIONAL AVG	.	9.6	21.2	2.0	2.0	8.4	3.8	22.2	2.7	28.0	34.8	11.9	16.1	34.2	35.4

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: Z01C  
 Describe second consequence of using longer-lasting paint on bridge requiring year-round (Chemistry)  
 Difficulty: 732

COUNTRY	N	NOT REACH ED										OMIT	1. GIRL % Right	2. BOY % Right	
		10	11	12	19	70	76	79	90	99	V1				
Australia	690	7.6	4.4	5.1	0.9	3.0	3.9	28.4	1.4	45.2	18.0	8.2	37.0	17.7	18.3
Austria	380	17.5	7.1	0.3	1.0	3.6	0.4	16.8	5.6	47.6	26.0	9.3	38.3	25.7	27.0
Belgium (Fl)	336	21.5	15.6	2.6	3.0	4.0	4.4	19.9	0.0	29.1	42.6	3.0	26.1	41.9	43.4
Belgium (Fr)	287	0.0	0.0	0.0	14.8	0.0	0.0	23.4	0.0	61.8	14.8	17.1	44.7	12.6	16.4
Bulgaria	175	17.6	4.8	0.8	4.5	0.5	2.0	5.7	0.5	63.6	27.7	31.7	31.9	26.8	29.0
Canada	1015	9.7	4.5	4.3	2.2	1.9	2.3	33.9	3.6	37.5	20.7	6.9	30.7	18.1	22.7
Colombia	340	1.3	1.4	0.8	1.4	3.1	6.9	23.5	0.2	61.5	4.8	33.7	27.8	2.1	8.3
Cyprus	388	8.2	6.3	1.1	0.6	3.2	0.8	16.9	0.4	62.5	16.2	31.3	31.2	14.1	18.3
Czech Republic	411	19.2	10.3	0.0	0.9	7.1	7.8	10.7	1.1	43.0	30.4	7.9	35.1	30.0	30.8
Denmark	279	12.9	6.5	0.0	0.2	2.1	1.6	6.1	0.0	70.7	19.5	30.1	40.5	16.3	23.5
England	230	14.3	8.5	1.8	1.4	6.6	4.1	21.8	3.7	37.7	26.0	5.6	32.2	30.1	22.4
France	384	7.5	4.8	0.8	0.8	1.2	4.5	12.8	0.4	67.2	13.9	21.1	46.0	8.2	19.1
Germany	362	10.7	4.7	1.2	1.1	1.9	2.2	10.4	0.8	67.0	17.7	17.8	49.2	18.5	16.4
Greece	503	6.4	3.1	0.6	1.3	2.5	2.4	18.5	1.8	63.5	11.4	15.7	47.8	12.4	10.4
Hong Kong	432	14.2	8.7	0.7	2.3	5.0	1.9	19.1	0.9	47.2	25.9	19.0	28.3	26.1	25.4
Hungary	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Iceland	241	8.2	2.6	1.4	2.1	1.1	4.8	14.0	0.5	65.4	14.3	15.8	49.5	12.5	16.0
Iran, Islamic Rep.	476	1.1	2.5	0.0	0.7	2.1	0.7	14.7	0.1	78.2	4.3	14.9	63.3	5.0	3.8
Ireland	398	13.1	8.1	5.5	3.0	4.7	4.5	27.0	3.0	31.0	29.7	2.3	28.6	30.1	29.3
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	15.2	10.7	1.8	8.5	1.2	2.5	7.3	0.1	52.7	36.2	9.6	43.1	35.2	37.3
Korea	362	30.4	17.9	5.1	2.3	5.8	6.3	15.9	0.0	16.4	55.6	4.0	12.4	59.3	52.8
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	313	2.0	2.3	0.0	0.0	0.0	0.0	3.1	1.1	91.4	4.3	35.0	56.4	3.8	4.9
Lithuania	309	4.2	1.6	0.0	1.0	0.0	0.0	1.4	0.0	91.9	6.7	47.3	44.6	7.9	5.6
Netherlands	248	19.4	11.8	3.7	2.2	0.0	0.6	17.3	9.2	35.9	37.1	4.6	31.2	36.2	38.0
New Zealand	387	20.2	12.2	0.9	1.6	5.6	6.7	20.6	0.0	32.1	35.0	6.8	25.3	33.4	36.6
Norway	304	10.9	6.4	2.5	0.6	8.9	7.4	18.6	9.9	34.8	20.4	8.8	26.0	19.0	21.8
Philippines	740	3.4	9.3	0.0	0.4	1.1	2.7	20.1	2.7	60.3	13.1	27.7	32.6	14.3	11.8
Portugal	424	5.9	3.1	0.2	0.2	7.3	5.0	23.2	0.7	54.4	9.5	14.0	40.4	9.2	9.8
Romania	469	2.7	1.6	0.2	0.1	2.3	3.1	12.5	0.2	77.2	4.7	38.0	39.2	5.7	3.8
Russian Federation	510	3.7	4.5	1.7	1.1	0.2	1.3	5.6	3.6	78.4	11.0	29.8	48.6	10.6	11.4
Scotland	352	12.9	6.5	1.1	0.2	1.4	5.3	32.5	2.0	38.1	20.7	7.4	30.7	19.1	22.2
Singapore	445	21.6	12.8	1.5	0.9	5.7	4.6	31.7	0.4	20.9	36.8	3.2	17.7	39.4	34.1
Slovak Republic	444	8.7	5.9	0.0	4.1	6.5	5.6	18.0	1.4	49.9	18.6	14.3	35.6	17.6	19.8
Slovenia	365	9.8	8.0	0.8	2.8	3.7	4.0	17.9	0.6	52.4	21.4	17.0	35.4	21.9	20.9
South Africa	647	0.6	0.5	0.0	0.0	1.1	0.4	12.3	0.9	84.2	1.1	48.9	35.3	0.4	1.9
Spain	457	11.2	4.6	1.2	0.6	8.2	6.9	18.6	0.0	48.7	17.5	10.4	38.3	20.1	15.3
Sweden	359	25.6	13.3	1.1	2.5	7.8	0.3	16.9	3.7	28.8	42.4	6.7	22.1	46.1	39.0
Switzerland	515	14.9	7.4	1.5	1.3	2.0	1.9	11.7	4.7	54.6	25.0	12.3	42.3	21.0	29.4
Thailand	725	16.7	12.3	2.6	2.3	6.3	1.9	23.6	0.8	33.3	34.1	4.1	29.1	36.9	30.1
United States	473	6.4	6.1	4.9	3.0	2.3	2.9	36.4	4.2	33.8	20.4	6.2	27.7	22.6	18.3
INTERNATIONAL AVG	.	11.2	6.7	1.5	2.0	3.4	3.2	17.7	1.8	52.6	21.4	16.6	36.0	21.2	21.7

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: Z02A

Write a reason why not all people have enough water. (Environment and other content)

Difficulty: 437

COUNTRY	N	NOT REACH ED										OMIT	1. GIRL % Right	2. BOY % Right	
		10	11	12	13	14	19	79	90	99	V1				
Australia	690	29.7	0.6	5.3	17.8	4.7	13.3	15.2	2.2	11.3	71.3	9.9	1.3	73.7	69.1
Austria	380	17.1	0.4	25.7	1.8	1.8	6.7	33.5	1.8	11.2	53.5	10.8	0.4	54.3	52.3
Belgium (Fl)	336	45.3	1.3	13.9	3.1	6.9	9.7	13.1	0.2	6.4	80.3	3.7	2.7	83.8	76.7
Belgium (Fr)	288	0.0	0.0	0.0	0.0	0.0	36.6	41.0	0.0	22.4	36.6	19.5	2.9	39.8	33.0
Bulgaria	175	23.8	1.1	4.0	8.2	0.0	6.8	8.6	0.5	47.0	43.9	36.4	10.6	45.4	42.0
Canada	1015	28.3	2.1	17.0	7.6	8.0	11.1	14.8	2.7	8.3	74.2	7.5	0.8	76.8	71.2
Colombia	340	4.1	1.5	11.9	12.0	0.5	6.4	16.3	0.6	46.7	36.4	39.8	6.9	39.6	33.0
Cyprus	388	8.5	2.9	1.4	20.1	5.0	2.6	20.2	0.7	38.6	40.5	34.3	4.2	40.7	40.4
Czech Republic	412	13.4	1.5	22.4	6.2	5.8	13.3	21.7	1.2	14.5	62.6	10.3	4.1	60.7	64.5
Denmark	279	3.7	0.4	16.1	17.5	0.6	2.9	22.1	0.0	36.8	41.1	32.9	3.9	42.5	40.0
England	230	36.1	0.0	10.2	7.9	13.9	12.0	9.7	3.3	6.8	80.1	6.4	0.4	81.0	79.4
France	384	27.1	0.5	8.0	3.6	10.4	7.5	15.3	1.8	25.8	57.1	23.0	2.7	62.5	51.4
Germany	366	20.0	0.7	11.1	3.5	14.2	9.3	16.5	0.5	24.2	58.8	21.8	2.5	62.9	55.9
Greece	503	13.9	5.9	4.6	20.3	4.7	9.8	18.0	2.0	20.9	59.1	18.8	2.1	61.7	56.7
Hong Kong	425	30.3	0.8	3.3	7.9	1.2	3.5	29.8	0.9	22.4	47.0	21.1	1.3	47.7	46.2
Hungary	376	15.3	1.9	13.3	3.5	3.9	9.9	16.7	0.5	35.1	47.7	21.4	13.6	49.9	45.8
Iceland	241	18.9	1.3	20.2	3.8	9.1	4.1	18.5	2.7	21.4	57.4	20.1	1.3	60.4	54.7
Iran, Islamic Rep.	474	9.1	2.7	0.4	28.7	2.7	3.7	28.1	1.4	23.2	47.3	21.1	2.1	51.5	44.4
Ireland	398	43.0	0.2	10.0	3.7	9.1	9.6	17.7	2.4	4.4	75.5	3.6	0.8	73.3	77.7
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	54.5	4.6	2.0	3.4	6.1	6.5	10.2	0.2	12.6	77.0	10.9	1.7	77.0	77.0
Korea	362	33.6	2.3	15.9	5.2	5.8	3.2	22.3	0.0	11.8	66.0	7.5	4.2	68.9	63.7
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	313	5.2	1.6	6.8	2.1	9.5	12.6	11.8	5.4	45.0	37.9	43.5	1.5	42.4	33.2
Lithuania	309	11.5	1.3	4.3	1.2	12.4	1.6	10.9	0.3	56.5	32.3	55.6	0.9	36.7	28.3
Netherlands	248	36.0	1.8	5.7	2.9	17.7	11.7	11.5	4.9	7.8	75.9	6.1	1.7	77.2	74.5
New Zealand	387	34.3	2.3	7.7	21.4	5.5	10.6	6.7	1.1	10.4	81.8	8.3	2.1	84.0	79.6
Norway	304	31.6	1.3	9.8	11.2	9.0	6.6	15.4	3.3	11.8	69.5	8.8	2.9	69.3	69.7
Philippines	740	13.9	3.1	5.1	9.7	1.6	3.5	24.5	4.7	33.8	37.0	31.4	2.4	41.4	32.4
Portugal	424	32.5	1.9	4.0	5.7	6.2	3.0	23.0	1.5	22.1	53.4	17.7	4.4	55.8	50.7
Romania	468	9.6	0.4	2.9	3.7	7.9	1.8	23.7	0.5	49.6	26.3	45.9	3.7	25.7	26.4
Russian Federation	510	7.5	1.3	12.0	9.2	11.5	6.9	9.8	5.8	36.2	48.3	34.3	1.9	44.8	52.1
Scotland	352	36.8	1.2	5.7	4.6	15.1	5.4	20.5	0.9	9.9	68.7	8.8	1.1	69.4	68.1
Singapore	445	20.2	0.0	5.3	26.8	4.4	18.2	19.6	0.5	4.9	75.0	4.1	0.8	76.1	73.9
Slovak Republic	445	45.2	3.0	12.0	3.0	3.1	1.4	9.1	2.9	20.3	67.7	18.1	2.2	71.3	63.6
Slovenia	365	26.5	2.0	13.3	2.8	6.1	5.3	13.6	2.0	28.5	55.9	21.6	6.8	62.2	49.2
South Africa	647	4.9	1.2	3.9	6.1	1.5	1.3	23.2	0.3	57.6	18.9	53.7	3.9	23.5	13.6
Spain	457	42.6	1.7	4.0	18.2	5.4	2.4	10.3	0.7	14.7	74.3	13.0	1.7	81.2	68.3
Sweden	359	25.4	2.4	10.3	3.8	9.1	9.6	15.9	5.4	18.0	60.7	10.3	7.7	68.0	54.0
Switzerland	515	25.7	0.3	8.2	5.4	4.8	5.7	30.4	2.1	17.5	50.1	14.9	2.6	48.4	52.3
Thailand	725	4.9	7.0	6.2	40.6	0.2	27.1	7.6	0.7	5.7	85.9	4.7	1.1	87.5	83.2
United States	473	21.7	1.0	15.3	12.5	2.7	14.4	21.3	1.7	9.4	67.6	8.2	1.2	73.1	62.4
INTERNATIONAL AVG	.	22.8	1.7	9.0	9.4	6.2	8.4	18.0	1.8	22.8	57.5	19.7	3.0	59.8	55.3

V1 = % Scoring 1 or better V2 = % Scoring 2 or better V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent

Item: Z02B

Write a second reason why not all people have enough water. (Environment and other content)

Difficulty: 598

COUNTRY	N	NOT REACH ED										OMIT	1. GIRL % Right	2. BOY % Right	
		10	11	12	13	14	19	79	90	99	V1				
Australia	690	8.6	1.6	7.1	11.9	3.7	14.8	26.7	1.9	23.7	47.7	11.3	12.5	51.8	43.8
Austria	380	10.0	0.8	14.5	2.5	2.5	4.4	36.9	2.1	26.3	34.7	11.2	15.0	36.7	31.9
Belgium (Fl)	336	8.8	0.5	19.2	2.4	6.5	20.4	20.2	0.2	21.8	57.8	6.1	15.7	60.6	54.9
Belgium (Fr)	288	0.0	0.0	0.0	0.0	0.0	22.5	26.6	0.0	50.9	22.5	22.3	28.6	25.6	17.8
Bulgaria	175	12.9	0.7	2.3	4.8	4.1	10.3	7.2	0.5	57.3	35.0	43.6	13.6	34.0	36.5
Canada	1015	12.0	1.8	14.2	7.2	3.4	15.1	21.3	1.6	23.4	53.7	8.3	15.1	55.4	52.2
Colombia	340	2.4	0.9	7.7	7.0	0.8	7.2	18.1	0.4	55.6	25.9	45.7	9.9	29.8	21.6
Cyprus	386	3.9	0.6	2.0	11.3	3.4	3.2	19.7	0.4	55.5	24.5	38.5	17.0	26.1	22.9
Czech Republic	412	9.4	0.3	11.2	4.4	1.9	9.8	23.8	0.9	38.2	37.0	14.5	23.8	39.5	34.6
Denmark	279	1.3	0.0	10.1	5.9	0.0	0.2	25.6	0.6	56.3	17.5	36.2	20.1	17.4	18.0
England	230	10.3	1.1	13.3	6.9	7.1	20.4	14.5	1.2	25.1	59.1	6.8	18.3	57.8	60.2
France	384	6.0	0.9	6.6	4.8	4.3	6.7	18.1	0.9	51.6	29.3	25.6	26.0	32.7	27.2
Germany	364	6.4	1.6	11.6	3.5	7.1	6.0	15.6	1.2	47.1	36.1	24.1	23.0	39.1	33.5
Greece	502	5.2	4.1	4.6	11.6	5.5	5.2	20.1	1.0	42.7	36.2	21.0	21.7	38.8	33.7
Hong Kong	421	11.7	2.3	6.8	6.2	3.0	2.8	26.5	0.9	39.8	32.8	22.6	17.2	38.1	28.6
Hungary	376	3.1	1.8	12.9	4.7	4.3	14.2	14.7	1.1	43.2	40.9	27.0	16.2	47.7	34.8
Iceland	241	9.8	0.8	12.9	2.9	2.7	3.4	15.4	0.8	51.2	32.6	21.4	29.8	39.1	26.9
Iran, Islamic Rep.	470	1.1	1.0	0.1	2.4	2.7	1.5	13.4	1.2	76.7	8.8	23.0	53.7	10.6	7.4
Ireland	398	12.1	0.9	20.6	6.1	6.5	16.9	16.8	1.3	18.8	63.1	4.4	14.4	68.4	57.6
Israel	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Japan	645	9.2	4.6	5.0	3.5	9.0	11.2	10.3	0.3	46.9	42.5	12.3	34.5	41.0	43.9
Korea	362	16.7	3.1	11.5	4.2	3.6	6.9	31.3	0.0	22.6	46.1	11.2	11.4	49.3	43.5
Kuwait	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Latvia (LSS)	313	1.7	0.6	1.3	1.1	2.3	5.0	7.2	2.7	78.1	11.9	44.7	33.5	15.5	8.3
Lithuania	309	2.7	1.1	3.2	2.7	3.8	2.2	9.8	0.6	73.9	15.7	56.5	17.4	17.2	14.3
Netherlands	248	11.5	1.8	9.5	2.9	8.2	15.4	8.9	6.0	35.6	49.4	7.5	28.1	49.9	48.9
New Zealand	387	15.9	2.7	12.6	10.9	3.3	14.4	12.8	0.0	27.5	59.7	10.4	17.1	66.4	52.9
Norway	304	12.3	0.3	11.6	4.0	6.3	10.6	19.0	7.1	28.8	45.0	11.8	17.1	46.1	43.9
Philippines	740	2.3	13.0	1.5	3.8	1.6	2.2	28.4	4.5	42.8	24.3	33.6	9.2	25.5	23.1
Portugal	424	2.9	0.8	2.0	4.4	1.2	2.4	18.3	0.5	67.4	13.8	21.9	45.5	13.6	13.9
Romania	464	2.7	0.1	2.3	4.5	5.1	1.6	18.7	0.0	65.0	16.3	49.2	15.8	17.7	15.1
Russian Federation	510	5.5	0.9	7.4	3.0	4.4	5.8	9.0	3.8	60.3	26.9	36.0	24.3	24.0	30.1
Scotland	352	8.8	0.6	8.4	4.8	5.7	9.5	28.1	1.1	32.9	37.8	9.9	23.0	44.6	31.5
Singapore	445	6.1	0.2	11.4	15.5	5.8	17.9	29.6	1.1	12.4	56.9	4.9	7.5	60.4	53.5
Slovak Republic	445	6.1	2.5	13.1	3.2	5.0	3.2	18.6	1.4	47.0	32.9	20.3	26.7	34.2	31.5
Slovenia	364	8.8	1.3	11.6	3.2	3.8	4.1	15.1	0.2	51.8	32.9	27.2	24.6	36.7	28.8
South Africa	647	3.9	0.4	1.8	3.1	1.2	1.3	16.3	0.6	71.5	11.6	57.1	14.4	15.5	7.0
Spain	457	12.3	2.6	4.9	18.0	3.7	6.0	20.2	0.0	32.3	47.5	14.7	17.6	54.8	41.1
Sweden	359	9.4	0.8	9.3	3.7	3.5	7.9	26.3	4.0	35.1	34.6	18.0	17.1	43.2	26.5
Switzerland	515	9.5	0.7	5.8	6.3	4.1	9.1	22.9	2.6	39.0	35.5	17.5	21.5	34.8	36.6
Thailand	725	2.2	3.6	11.9	18.4	1.9	24.0	28.7	0.0	9.4	61.9	5.4	4.0	62.9	60.7
United States	473	12.6	1.4	15.1	7.6	1.9	11.7	25.9	1.2	22.5	50.4	9.4	13.1	55.6	45.4
INTERNATIONAL AVG	.	7.5	1.6	8.5	5.9	3.9	8.9	19.7	1.4	42.7	36.2	22.3	20.4	39.0	33.6

V1 = % Scoring 1 or better    V2 = % Scoring 2 or better    V3 = % Scoring 3 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent