

TIMSS 2011

Summary Statistics and Standard Errors for Proficiency in Mathematics at the Fourth Grade

Exhibit 1: Summary Statistics and Standard Errors for Proficiency in Overall Mathematics at the Fourth Grade

Country	Sample Size	Overall Mathematics			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Armenia	5146	452.282	88.876	3.385	3.515
Australia	6146	515.932	86.298	2.717	2.860
Austria	4668	508.311	62.695	2.575	2.640
Azerbaijan	4882	462.751	100.988	5.732	5.798
Bahrain	4083	436.037	89.893	3.091	3.263
Belgium (Flemish)	4849	549.185	59.597	1.834	1.910
Chile	5585	461.681	80.523	2.120	2.256
Chinese Taipei	4284	591.206	73.214	1.780	1.978
Croatia	4584	490.175	67.066	1.874	1.921
Czech Republic	4578	510.848	70.385	2.374	2.417
Denmark	3987	536.963	70.759	2.513	2.560
England	3397	542.364	89.381	3.367	3.452
Finland	4638	545.438	68.367	2.294	2.349
Georgia	4799	450.124	89.842	3.527	3.695
Germany	3995	527.741	62.131	2.207	2.232
Hong Kong SAR	3957	601.609	66.410	3.330	3.414
Hungary	5204	515.396	89.786	3.387	3.428
Iran, Islamic Rep. of	5760	430.754	92.754	3.409	3.473
Ireland	4560	527.395	77.947	2.592	2.631
Italy	4200	507.821	72.161	2.468	2.568
Japan	4411	585.373	72.297	1.557	1.677
Kazakhstan	4382	501.002	83.734	4.455	4.475
Korea, Rep. of	4334	604.874	68.341	1.606	1.879
Kuwait	4142	341.757	101.207	2.879	3.356
Lithuania	4688	533.690	74.010	2.385	2.441
Malta	3607	495.766	77.694	1.027	1.335
Morocco	7841	334.594	102.533	3.765	4.019
Netherlands	3229	540.054	52.956	1.610	1.699
New Zealand	5572	486.123	83.471	2.394	2.647

Exhibit 1: Summary Statistics and Standard Errors for Proficiency in Overall Mathematics at the Fourth Grade (Continued)

Country	Sample Size	Overall Mathematics			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Northern Ireland	3571	562.483	85.893	2.807	2.905
Norway	3121	494.955	68.360	2.696	2.820
Oman	10411	384.857	104.065	2.755	2.911
Poland	5027	481.165	73.026	2.112	2.169
Portugal	4042	532.258	68.672	3.405	3.445
Qatar	4117	412.916	105.635	3.301	3.494
Romania	4673	482.281	105.351	5.820	5.849
Russian Federation	4467	542.097	73.750	3.524	3.720
Saudi Arabia	4515	410.210	100.043	5.176	5.268
Serbia	4379	515.936	88.800	2.976	2.994
Singapore	6368	605.786	78.171	3.172	3.209
Slovak Republic	5616	506.769	79.622	3.676	3.752
Slovenia	4492	513.026	68.512	2.094	2.197
Spain	4183	482.429	70.303	2.873	2.914
Sweden	4663	503.938	66.842	1.988	2.028
Thailand	4448	457.976	79.666	4.664	4.756
Tunisia	4912	359.345	94.787	3.761	3.865
Turkey	7479	469.275	100.527	4.629	4.651
United Arab Emirates	14720	434.383	98.561	1.862	1.957
United States	12569	540.649	75.577	1.778	1.814
Yemen	8058	247.565	109.919	5.663	5.951
Sixth Grade Participants					
Botswana	4198	419.221	89.341	3.648	3.711
Honduras	3919	396.446	83.612	5.314	5.529
Yemen	4929	348.481	97.039	5.437	5.711
Benchmarking Participants					
Alberta, Canada	3645	506.550	64.810	2.360	2.471
Ontario, Canada	4570	517.883	73.272	3.049	3.096
Quebec, Canada	4235	532.798	60.208	2.229	2.445
Abu Dhabi, UAE	4164	417.175	96.806	4.434	4.559
Dubai, UAE	6151	467.880	100.640	1.538	1.585
Florida, US	2661	545.186	74.423	2.878	2.932
North Carolina, US	1792	554.064	71.739	4.096	4.221

Exhibit 2: Summary Statistics and Standard Errors for Proficiency in Number at the Fourth Grade

Country	Sample Size	Number			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Armenia	5146	484.093	79.895	3.149	3.178
Australia	6146	508.121	92.608	3.080	3.226
Austria	4668	506.253	59.272	2.427	2.480
Azerbaijan	4882	490.865	90.773	5.208	5.301
Bahrain	4083	439.110	91.902	2.774	3.043
Belgium (Flemish)	4849	551.611	61.564	1.999	2.168
Chile	5585	461.821	78.773	2.080	2.736
Chinese Taipei	4284	599.278	73.000	1.857	2.044
Croatia	4584	490.929	63.468	1.658	1.783
Czech Republic	4578	508.734	68.596	2.293	2.484
Denmark	3987	533.985	71.449	2.385	2.444
England	3397	539.010	95.770	3.587	3.681
Finland	4638	545.270	72.614	2.244	2.289
Georgia	4799	472.819	81.028	3.064	3.112
Germany	3995	520.151	63.203	2.233	2.292
Hong Kong SAR	3957	604.225	70.974	3.289	3.297
Hungary	5204	515.060	87.240	3.117	3.218
Iran, Islamic Rep. of	5760	439.720	88.465	3.234	3.322
Ireland	4560	532.789	79.276	2.556	2.648
Italy	4200	510.004	72.699	2.467	2.653
Japan	4411	584.015	76.280	1.556	1.622
Kazakhstan	4382	514.600	75.847	4.041	4.107
Korea, Rep. of	4334	605.627	73.128	1.837	2.044
Kuwait	4142	332.623	113.862	3.419	4.090
Lithuania	4688	537.443	73.626	2.361	2.398
Malta	3607	497.891	84.030	1.266	1.897
Morocco	7841	340.256	105.618	3.530	3.786
Netherlands	3229	543.269	57.786	1.557	1.659
New Zealand	5572	482.815	93.660	2.384	2.539
Northern Ireland	3571	566.367	87.414	2.732	2.948
Norway	3121	488.199	72.633	2.928	3.121
Oman	10411	383.509	110.306	2.769	3.125
Poland	5027	480.232	75.043	2.109	2.202
Portugal	4042	522.300	69.570	3.449	3.718
Qatar	4117	416.951	108.749	3.138	3.292
Romania	4673	496.891	99.755	5.390	5.626
Russian Federation	4467	544.835	69.544	3.257	3.265
Saudi Arabia	4515	410.480	107.938	5.540	5.713
Serbia	4379	528.988	83.937	2.877	3.007
Singapore	6368	619.042	81.497	3.377	3.444

Exhibit 2: Summary Statistics and Standard Errors for Proficiency in Number at the Fourth Grade (Continued)

Country	Sample Size	Number			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Slovak Republic	5616	511.383	76.857	3.517	3.682
Slovenia	4492	503.089	72.280	2.261	2.651
Spain	4183	486.685	71.469	2.933	3.023
Sweden	4663	500.221	70.891	2.156	2.190
Thailand	4448	464.123	76.887	4.460	4.484
Tunisia	4912	390.107	84.519	3.489	3.671
Turkey	7479	476.747	99.630	4.488	4.490
United Arab Emirates	14720	437.914	102.958	1.959	2.079
United States	12569	542.766	77.507	1.849	1.990
Yemen	8058	260.768	126.365	6.031	6.402
Sixth Grade Participants					
Botswana	4198	421.092	89.931	3.649	3.658
Honduras	3919	417.697	74.814	4.768	4.900
Yemen	4929	367.299	97.308	5.292	5.513
Benchmarking Participants					
Alberta, Canada	3645	505.165	70.747	2.545	2.743
Ontario, Canada	4570	503.957	80.671	3.373	3.405
Quebec, Canada	4235	531.497	61.054	2.396	2.644
Abu Dhabi, UAE	4164	419.776	101.654	4.467	4.672
Dubai, UAE	6151	473.574	104.525	1.524	1.651
Florida, US	2661	548.135	78.793	3.108	3.154
North Carolina, US	1792	563.804	72.856	3.820	3.982

Exhibit 3: Summary Statistics and Standard Errors for Proficiency in Geometric Shapes at the Fourth Grade

Country	Sample Size	Geometric Shapes			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Armenia	5146	423.842	110.189	4.060	4.202
Australia	6146	533.666	88.984	2.866	3.022
Austria	4668	511.918	74.843	3.310	3.413
Azerbaijan	4882	436.645	124.085	7.116	7.299
Bahrain	4083	421.556	96.262	3.632	3.918
Belgium (Flemish)	4849	552.106	56.303	1.836	1.995
Chile	5585	455.443	91.578	2.482	2.996
Chinese Taipei	4284	572.643	84.823	2.070	2.108
Croatia	4584	490.231	79.121	2.337	2.488
Czech Republic	4578	512.667	78.487	2.812	3.020
Denmark	3987	547.975	79.109	2.576	2.996
England	3397	545.101	95.813	3.792	3.875
Finland	4638	543.234	66.090	2.362	2.933
Georgia	4799	411.494	104.640	4.072	4.280
Germany	3995	536.014	70.148	2.542	2.637
Hong Kong SAR	3957	604.771	64.518	3.257	3.404
Hungary	5204	520.370	95.871	3.410	3.559
Iran, Islamic Rep. of	5760	434.702	101.594	3.861	3.917
Ireland	4560	520.088	84.370	2.963	3.136
Italy	4200	512.560	84.470	2.962	3.066
Japan	4411	589.276	76.248	1.919	1.993
Kazakhstan	4382	491.185	99.041	5.152	5.296
Korea, Rep. of	4334	607.170	68.286	1.583	1.746
Kuwait	4142	320.547	113.611	3.578	4.199
Lithuania	4688	530.639	77.659	2.663	2.978
Malta	3607	486.941	75.546	1.092	1.466
Morocco	7841	350.037	106.477	3.884	4.029
Netherlands	3229	523.934	52.606	1.517	2.885
New Zealand	5572	483.080	76.919	2.049	2.484
Northern Ireland	3571	560.010	97.426	2.987	3.269
Norway	3121	506.585	71.599	2.884	3.001
Oman	10411	376.317	115.942	3.098	3.292
Poland	5027	475.423	74.589	2.352	2.689
Portugal	4042	548.049	80.276	3.970	4.353
Qatar	4117	398.789	112.465	3.393	3.857
Romania	4673	468.641	114.433	5.664	5.729
Russian Federation	4467	541.557	86.764	4.122	4.260
Saudi Arabia	4515	404.311	110.712	5.967	6.380
Serbia	4379	496.701	97.219	3.498	3.766
Singapore	6368	589.254	82.704	3.424	3.619

Exhibit 3: Summary Statistics and Standard Errors for Proficiency in Geometric Shapes at the Fourth Grade (Continued)

Country	Sample Size	Geometric Shapes			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Slovak Republic	5616	499.904	85.336	4.060	4.290
Slovenia	4492	525.867	65.554	1.934	2.278
Spain	4183	476.345	75.472	2.961	3.030
Sweden	4663	499.516	69.160	2.126	2.377
Thailand	4448	436.594	92.737	5.542	5.649
Tunisia	4912	329.355	116.660	4.002	4.616
Turkey	7479	447.303	111.351	4.968	5.022
United Arab Emirates	14720	417.931	104.704	2.227	2.298
United States	12569	534.569	84.836	2.155	2.179
Yemen	8058	192.676	126.214	5.783	6.482
Sixth Grade Participants					
Botswana	4198	403.756	96.628	3.886	4.446
Honduras	3919	365.307	94.000	5.749	5.942
Yemen	4929	304.359	110.302	5.568	6.314
Benchmarking Participants					
Alberta, Canada	3645	495.635	63.518	2.584	2.644
Ontario, Canada	4570	535.263	81.762	3.134	3.449
Quebec, Canada	4235	536.157	67.583	2.455	3.181
Abu Dhabi, UAE	4164	401.092	102.572	5.157	5.290
Dubai, UAE	6151	449.100	108.526	1.942	2.348
Florida, US	2661	545.614	81.590	3.071	3.768
North Carolina, US	1792	536.054	87.368	4.992	5.006

Exhibit 4: Summary Statistics and Standard Errors for Proficiency in Data Display at the Fourth Grade

Country	Sample Size	Data Display			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Armenia	5146	385.904	112.526	4.135	4.900
Australia	6146	515.365	86.084	2.780	3.093
Austria	4668	515.067	76.910	2.624	3.118
Azerbaijan	4882	407.488	119.142	6.315	6.389
Bahrain	4083	442.467	95.860	3.609	4.062
Belgium (Flemish)	4849	536.148	77.219	2.450	2.953
Chile	5585	465.307	93.449	2.325	2.477
Chinese Taipei	4284	600.256	82.966	2.090	2.581
Croatia	4584	487.796	82.757	2.064	2.683
Czech Republic	4578	518.875	90.171	2.979	3.050
Denmark	3987	531.549	80.596	2.703	2.955
England	3397	549.328	92.899	3.462	4.635
Finland	4638	550.592	72.644	2.186	3.520
Georgia	4799	432.555	105.128	3.765	4.010
Germany	3995	545.702	79.043	2.628	2.841
Hong Kong SAR	3957	593.304	75.521	3.373	3.648
Hungary	5204	510.033	104.647	4.051	4.208
Iran, Islamic Rep. of	5760	397.328	103.289	3.991	4.324
Ireland	4560	523.011	80.235	2.521	2.838
Italy	4200	494.513	75.212	2.474	3.132
Japan	4411	589.579	72.592	1.354	2.944
Kazakhstan	4382	475.883	104.614	5.613	5.718
Korea, Rep. of	4334	602.867	67.486	1.540	1.859
Kuwait	4142	346.998	114.626	3.404	3.772
Lithuania	4688	526.238	80.420	2.573	2.978
Malta	3607	497.923	88.540	1.244	1.614
Morocco	7841	270.653	128.340	4.239	4.740
Netherlands	3229	559.119	68.620	2.175	2.890
New Zealand	5572	491.149	89.161	2.525	2.740
Northern Ireland	3571	554.981	84.146	2.772	3.014
Norway	3121	494.308	81.695	2.745	3.250
Oman	10411	380.716	104.295	2.706	3.058
Poland	5027	488.583	91.229	2.425	2.932
Portugal	4042	548.444	77.055	2.650	2.765
Qatar	4117	416.416	105.264	3.036	4.610
Romania	4673	456.529	128.095	6.331	6.775
Russian Federation	4467	532.915	86.576	3.891	4.085
Saudi Arabia	4515	403.122	99.986	4.944	6.040
Serbia	4379	502.646	104.803	3.344	3.757
Singapore	6368	587.561	76.894	3.044	3.390

Exhibit 4: Summary Statistics and Standard Errors for Proficiency in Data Display at the Fourth Grade (Continued)

Country	Sample Size	Data Display			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Slovak Republic	5616	504.097	91.478	3.999	4.623
Slovenia	4492	532.418	93.919	2.514	2.649
Spain	4183	479.000	82.563	3.160	3.601
Sweden	4663	523.483	78.293	2.230	2.955
Thailand	4448	466.553	89.972	4.876	5.081
Tunisia	4912	299.594	128.392	5.099	5.514
Turkey	7479	478.154	107.659	5.139	5.212
United Arab Emirates	14720	437.158	98.146	1.791	1.898
United States	12569	544.732	75.292	1.596	1.760
Yemen	8058	203.783	121.591	5.869	5.969
Sixth Grade Participants					
Botswana	4198	427.063	93.807	3.738	3.985
Honduras	3919	376.692	103.259	6.461	6.601
Yemen	4929	337.282	109.648	5.643	6.043
Benchmarking Participants					
Alberta, Canada	3645	523.939	73.437	2.320	3.087
Ontario, Canada	4570	536.366	81.960	3.129	3.500
Quebec, Canada	4235	537.727	75.960	2.766	3.690
Abu Dhabi, UAE	4164	418.068	96.257	4.209	4.315
Dubai, UAE	6151	471.257	100.175	1.492	3.066
Florida, US	2661	541.450	72.990	2.387	3.439
North Carolina, US	1792	558.351	82.067	4.146	5.207

Exhibit 5: Summary Statistics and Standard Errors for Proficiency in Mathematics Knowing at the Fourth Grade

Country	Sample Size	Mathematics Knowing			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Armenia	5146	460.806	91.386	3.671	4.014
Australia	6146	516.454	97.018	3.346	3.451
Austria	4668	507.302	58.656	2.510	2.519
Azerbaijan	4882	472.749	106.455	6.087	6.448
Bahrain	4083	438.332	91.376	3.275	3.763
Belgium (Flemish)	4849	564.114	58.217	1.799	1.947
Chile	5585	455.430	80.453	2.379	2.480
Chinese Taipei	4284	599.046	72.297	1.964	2.085
Croatia	4584	494.595	61.479	1.739	1.908
Czech Republic	4578	501.978	65.096	2.360	2.443
Denmark	3987	531.408	72.057	2.413	2.614
England	3397	552.007	100.594	3.798	4.296
Finland	4638	547.796	71.725	2.518	2.613
Georgia	4799	449.260	91.323	3.651	3.741
Germany	3995	523.569	60.604	2.145	2.274
Hong Kong SAR	3957	619.074	69.406	3.159	3.218
Hungary	5204	519.255	91.634	3.629	3.782
Iran, Islamic Rep. of	5760	435.111	95.368	3.390	3.829
Ireland	4560	539.151	86.244	2.960	3.097
Italy	4200	509.725	74.719	2.556	2.726
Japan	4411	590.386	73.314	1.605	1.656
Kazakhstan	4382	502.669	84.223	4.523	4.715
Korea, Rep. of	4334	614.344	68.687	1.897	2.010
Kuwait	4142	342.804	112.711	3.405	3.471
Lithuania	4688	525.145	78.443	2.493	2.966
Malta	3607	503.859	86.313	1.299	1.547
Morocco	7841	320.183	115.348	3.893	4.183
Netherlands	3229	537.425	48.882	1.421	2.049
New Zealand	5572	476.363	99.818	2.638	3.155
Northern Ireland	3571	579.908	98.980	3.211	3.353
Norway	3121	487.001	70.091	2.600	3.131
Oman	10411	379.725	118.119	2.919	3.199
Poland	5027	475.156	71.056	2.223	2.563
Portugal	4042	530.755	67.179	3.359	3.516
Qatar	4117	411.094	114.488	3.616	3.827
Romania	4673	484.032	110.881	6.076	6.263
Russian Federation	4467	540.932	67.442	3.291	3.388
Saudi Arabia	4515	409.442	109.104	5.828	6.078
Serbia	4379	520.090	83.578	2.750	2.898
Singapore	6368	628.674	81.437	3.293	3.524

**Exhibit 5: Summary Statistics and Standard Errors for Proficiency in Mathematics Knowing at the Fourth Grade
(Continued)**

Country	Sample Size	Mathematics Knowing			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Slovak Republic	5616	506.221	76.299	3.656	3.755
Slovenia	4492	509.821	68.982	2.221	2.761
Spain	4183	482.270	70.884	2.912	3.332
Sweden	4663	489.077	67.159	2.145	2.195
Thailand	4448	453.070	79.746	4.935	5.057
Tunisia	4912	369.997	96.963	3.718	3.980
Turkey	7479	474.781	104.991	5.130	5.446
United Arab Emirates	14720	437.362	103.275	2.049	2.243
United States	12569	555.589	76.986	1.991	2.125
Yemen	8058	217.015	131.283	6.689	6.836
Sixth Grade Participants					
Botswana	4198	424.016	95.746	4.036	4.509
Honduras	3919	384.548	82.106	5.390	5.527
Yemen	4929	337.599	101.888	5.602	5.992
Benchmarking Participants					
Alberta, Canada	3645	498.174	66.369	2.710	2.886
Ontario, Canada	4570	509.619	77.613	3.375	3.486
Quebec, Canada	4235	536.248	63.617	2.527	2.558
Abu Dhabi, UAE	4164	418.273	101.753	4.895	5.025
Dubai, UAE	6151	471.930	106.392	1.804	2.407
Florida, US	2661	567.995	78.415	3.349	3.851
North Carolina, US	1792	573.628	76.610	4.168	4.334

Exhibit 6: Summary Statistics and Standard Errors for Proficiency in Mathematics Applying at the Fourth Grade

Country	Sample Size	Mathematics Applying			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Armenia	5146	446.237	94.458	3.723	4.006
Australia	6146	519.079	86.014	2.919	2.989
Austria	4668	505.533	68.458	2.505	2.582
Azerbaijan	4882	457.169	104.338	6.028	6.045
Bahrain	4083	431.407	95.972	3.200	3.363
Belgium (Flemish)	4849	545.737	61.984	1.988	2.156
Chile	5585	462.792	82.121	2.277	2.465
Chinese Taipei	4284	593.365	78.535	1.938	2.038
Croatia	4584	483.675	70.168	1.875	1.982
Czech Republic	4578	511.991	74.707	2.644	2.803
Denmark	3987	538.922	72.336	2.629	2.947
England	3397	542.224	89.695	3.483	3.696
Finland	4638	543.831	66.812	2.398	2.693
Georgia	4799	447.411	91.433	3.404	3.444
Germany	3995	527.96	61.959	2.076	2.269
Hong Kong SAR	3957	597.466	67.823	3.176	3.246
Hungary	5204	513.342	87.639	3.212	3.299
Iran, Islamic Rep. of	5760	427.433	100.832	3.392	3.572
Ireland	4560	528.689	77.920	2.538	2.660
Italy	4200	505.961	74.104	2.751	2.845
Japan	4411	579.157	71.044	1.508	1.563
Kazakhstan	4382	499.235	86.677	4.617	4.984
Korea, Rep. of	4334	599.796	64.925	1.675	2.163
Kuwait	4142	330.131	107.422	3.141	4.523
Lithuania	4688	540.266	74.705	2.456	2.483
Malta	3607	497.031	75.949	1.180	1.955
Morocco	7841	332.163	99.988	3.718	3.932
Netherlands	3229	540.210	55.310	1.465	1.612
New Zealand	5572	489.742	78.604	2.271	2.401
Northern Ireland	3571	564.793	85.946	2.637	2.907
Norway	3121	499.428	69.592	2.845	2.969
Oman	10411	381.695	104.376	2.660	2.877
Poland	5027	479.608	75.205	2.315	2.606
Portugal	4042	533.877	72.442	3.785	3.865
Qatar	4117	411.112	106.129	3.401	3.431
Romania	4673	478.332	104.821	5.934	5.975
Russian Federation	4467	539.244	81.581	3.872	3.948
Saudi Arabia	4515	404.961	106.045	5.408	5.878
Serbia	4379	510.956	92.138	3.013	3.132
Singapore	6368	601.846	81.338	3.380	3.441

**Exhibit 6: Summary Statistics and Standard Errors for Proficiency in Mathematics Applying at the Fourth Grade
(Continued)**

Country	Sample Size	Mathematics Applying			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Slovak Republic	5616	505.172	81.944	3.774	3.963
Slovenia	4492	513.623	67.646	2.094	2.297
Spain	4183	483.062	71.982	2.752	3.107
Sweden	4663	507.483	65.168	2.052	2.243
Thailand	4448	457.741	80.332	4.647	4.762
Tunisia	4912	346.410	106.314	4.313	4.370
Turkey	7479	468.631	102.181	4.705	4.758
United Arab Emirates	14720	430.273	101.854	1.998	2.068
United States	12569	538.681	81.689	2.028	2.126
Yemen	8058	236.884	120.115	5.915	6.266
Sixth Grade Participants					
Botswana	4198	420.576	92.318	3.774	3.859
Honduras	3919	397.673	85.419	5.479	5.654
Yemen	4929	345.257	103.161	5.556	5.842
Benchmarking Participants					
Alberta, Canada	3645	507.800	65.896	2.456	2.625
Ontario, Canada	4570	520.962	74.412	3.333	3.526
Quebec, Canada	4235	529.290	59.197	2.471	2.552
Abu Dhabi, UAE	4164	412.951	100.344	4.641	4.675
Dubai, UAE	6151	465.209	104.333	1.655	2.251
Florida, US	2661	541.556	81.803	3.131	3.568
North Carolina, US	1792	552.846	81.526	4.623	4.727

Exhibit 7: Summary Statistics and Standard Errors for Proficiency in Mathematics Reasoning at the Fourth Grade

Country	Sample Size	Mathematics Reasoning			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Armenia	5146	442.355	100.822	3.691	3.806
Australia	6146	513.304	80.971	2.464	2.645
Austria	4668	513.373	68.831	2.505	3.279
Azerbaijan	4882	444.601	118.637	5.770	5.945
Bahrain	4083	439.104	86.744	3.281	3.420
Belgium (Flemish)	4849	531.793	70.967	2.047	2.651
Chile	5585	468.766	85.855	2.216	2.509
Chinese Taipei	4284	577.118	81.439	1.964	2.528
Croatia	4584	492.446	84.151	2.174	2.859
Czech Republic	4578	522.523	79.762	2.667	2.720
Denmark	3987	542.626	75.740	2.450	2.659
England	3397	531.226	90.623	3.175	3.696
Finland	4638	545.599	76.111	2.161	2.215
Georgia	4799	450.451	94.954	3.425	3.502
Germany	3995	532.031	79.321	2.567	3.046
Hong Kong SAR	3957	588.977	74.030	3.295	3.354
Hungary	5204	514.312	100.148	3.547	3.694
Iran, Islamic Rep. of	5760	422.557	93.026	2.914	2.983
Ireland	4560	509.621	82.328	2.692	3.148
Italy	4200	505.403	77.211	2.843	3.423
Japan	4411	591.626	83.840	1.723	1.959
Kazakhstan	4382	501.375	91.218	4.562	4.698
Korea, Rep. of	4334	602.637	83.644	1.931	2.349
Kuwait	4142	329.381	110.014	2.898	3.592
Lithuania	4688	536.223	75.039	2.411	2.507
Malta	3607	475.312	84.691	1.314	1.673
Morocco	7841	346.833	110.027	3.250	4.181
Netherlands	3229	543.413	70.324	2.000	2.631
New Zealand	5572	490.038	82.713	2.140	2.469
Northern Ireland	3571	537.877	89.018	2.588	3.327
Norway	3121	501.242	75.103	2.830	3.339
Oman	10411	390.803	99.218	2.331	2.648
Poland	5027	493.151	79.464	2.067	2.416
Portugal	4042	530.555	79.357	3.947	4.114
Qatar	4117	416.295	101.918	3.133	4.442
Romania	4673	486.456	107.487	5.66	5.897
Russian Federation	4467	547.716	76.799	3.393	3.589
Saudi Arabia	4515	412.309	98.824	5.146	6.024
Serbia	4379	514.249	103.308	3.167	3.717
Singapore	6368	587.953	88.212	3.464	3.661

**Exhibit 7: Summary Statistics and Standard Errors for Proficiency in Mathematics Reasoning at the Fourth Grade
(Continued)**

Country	Sample Size	Mathematics Reasoning			
		Mean Proficiency	Standard Deviation	Jackknife Sampling Error	Overall Standard Error
Slovak Republic	5616	510.561	86.384	3.832	3.921
Slovenia	4492	516.108	77.871	2.553	2.891
Spain	4183	482.751	75.496	2.593	2.944
Sweden	4663	519.513	77.242	2.423	3.001
Thailand	4448	464.137	81.511	4.473	4.733
Tunisia	4912	334.530	113.848	4.223	4.700
Turkey	7479	461.536	98.480	4.284	4.453
United Arab Emirates	14720	433.608	95.298	1.764	2.354
United States	12569	525.439	75.393	1.898	2.158
Yemen	8058	243.950	119.100	5.239	5.538
Sixth Grade Participants					
Botswana	4198	401.607	89.031	3.439	3.716
Honduras	3919	402.783	95.995	5.540	5.831
Yemen	4929	355.155	102.154	4.964	5.963
Benchmarking Participants					
Alberta, Canada	3645	513.627	74.856	2.529	3.003
Ontario, Canada	4570	521.547	75.708	2.960	3.081
Quebec, Canada	4235	534.217	73.241	2.386	2.522
Abu Dhabi, UAE	4164	418.470	93.967	4.080	4.538
Dubai, UAE	6151	463.509	97.243	1.566	2.222
Florida, US	2661	523.135	76.630	2.903	3.879
North Carolina, US	1792	533.064	80.986	4.189	4.474