

Exhibit 13.3: TIMSS 2015 Mathematics Items for Concurrent Calibration at the Eighth Grade

Item Type	Points	Items Released in 2011		Items Common in 2011 and 2015		Items Introduced in 2015		Total	
		Items	Points	Items	Points	Items	Points	Items	Points
Multiple-Choice	1	48	48	70	70	41	41	159	159
Constructed Response	1	30	30	52	52	34	34	116	116
	2	10	20	5	10	7	14	22	44
Total		88	98	127	132	82	89	297	319

TIMSS 2015 Eighth Grade Mathematics Items for Concurrent Calibration by Content and Cognitive Domains

Mathematics Content Domains	Items Released in 2011		Items Common in 2011 and 2015		Items Introduced in 2015		Total	
	Items	Points	Items	Points	Items	Points	Items	Points
Number	20	21	40	44	24	25	84	90
Algebra	30	35	40	41	21	22	91	98
Geometry	20	22	22	22	21	25	63	69
Data and Chance	18	20	25	25	16	17	59	62

Mathematics Cognitive Domains	Items Released in 2011		Items Common in 2011 and 2015		Items Introduced in 2015		Total	
	Items	Points	Items	Points	Items	Points	Items	Points
Knowing	34	36	45	45	24	24	103	105
Applying	30	34	54	57	40	44	124	135
Reasoning	24	28	28	30	18	21	70	79
Total	88	98	127	132	82	89	297	319