

Appendix B.1: Distribution of Items Included in the Assessment by Content Domain, Cognitive Domain, and Item Format

TIMSS Assessment Items	Multiple-Choice Items	Constructed Response Items	Total Items	Percentage of Score Points
Content Domain				
Number	46 (46)	43 (49)	89 (95)	52%
Geometric Shapes and Measures	35 (35)	21 (24)	56 (59)	32%
Data Display	8 (8)	16 (20)	24 (28)	15%
Total	89 (89)	80 (93)	169 (182)	100%
Percentage of Score Points	49%	51%		

Cognitive Domain				
Knowing	37 (37)	27 (28)	64 (65)	36%
Applying	36 (36)	36 (44)	72 (80)	44%
Reasoning	16 (16)	17 (21)	33 (37)	20%
Total	89 (89)	80 (93)	169 (182)	100%
Percentage of Score Points	49%	51%		

TIMSS Numeracy Assessment Items	Multiple-Choice Items	Constructed Response Items	Total Items	Percentage of Score Points
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Content Domain				
Whole Numbers	21 (21)	31 (32)	52 (53)	50%
Fractions and Decimals	7 (7)	8 (8)	15 (15)	14%
Shapes and Measures	18 (18)	17 (20)	35 (38)	36%
Total	46 (46)	56 (60)	102 (106)	100%
Percentage of Score Points	43%	57%		

Cognitive Domain				
Knowing	30 (30)	25 (25)	55 (55)	52%
Applying	11 (11)	24 (25)	35 (36)	34%
Reasoning	5 (5)	7 (10)	12 (15)	14%
Total	46 (46)	56 (60)	102 (106)	100%
Percentage of Score Points	43%	57%		

Counts of TIMSS Numeracy achievement items do not include the two fourth grade TIMSS 2015 mathematics blocks (see Chapter 4 of the *TIMSS 2015 Assessment Frameworks*).

Score points are shown in parentheses.

Because of rounding some results may appear inconsistent.

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015