

Exhibit 1.18: TIMSS 2015 Achievement Items by Cognitive Domain and Item Format – Eighth Grade

Cognitive Domain	Multiple-Choice Items		Constructed Response Items		Total Items	Percentage of Score Points
	Four Response Options	Compound	1 Point	2 Points		
Mathematics Items						
Knowing	49 (49)	1 (1)	18 (18)	1 (2)	69 (70)	31%
Applying	48 (48)		39 (39)	8 (16)	95 (103)	45%
Reasoning	15 (15)	2 (4)	25 (25)	6 (12)	48 (56)	24%
Total	112 (112)	3 (5)	82 (82)	15 (30)	212 (229)	
Achieved Percentage of Score Points	51%		49%			
Target Percentage of Score Points	50%		50%			
Science Items						
Knowing	59 (59)	5 (7)	7 (7)	6 (12)	77 (85)	36%
Applying	39 (39)	5 (6)	41 (41)	6 (12)	91 (98)	41%
Reasoning	13 (13)		35 (35)	4 (8)	52 (56)	23%
Total	111 (111)	10 (13)	83 (83)	16 (32)	220 (239)	
Achieved Percentage of Score Points	52%		48%			
Target Percentage of Score Points	50%		50%			

Score points are shown in parentheses.

Because percentages are rounded to the nearest whole number, some totals may appear inconsistent.