

Exhibit 1.9: TIMSS Advanced 2015 Achievement Items by Cognitive Domain

Cognitive Domain	Number of Trend Items in TIMSS Advanced 2015	Percentage of Trend Score Points	Number of New Items in TIMSS Advanced 2015	Percentage of New Score Points	Total Items	Achieved Percentage of Score Points	Target Percentage of Score Points
Advanced Mathematics Items							
Knowing	12 (13)	33%	21 (23)	27%	33 (36)	29%	35%
Applying	17 (22)	56%	23 (28)	33%	40 (50)	41%	35%
Reasoning	3 (4)	10%	26 (33)	39%	29 (37)	30%	30%
Total	32 (39)		70 (84)		102 (123)		
Physics Items							
Knowing	9 (10)	29%	22 (22)	27%	31 (32)	27%	30%
Applying	15 (16)	47%	27 (35)	42%	42 (51)	44%	40%
Reasoning	7 (8)	24%	23 (26)	31%	30 (34)	29%	30%
Total	31 (34)		72 (83)		103 (117)		

Score points are shown in parentheses.

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