Appendix MC.5: Participation Rates (Weighted) - Advanced Mathematics

Country	School Participation		Class Participation	Student Participation	Overall Participation	
	Before Replacement	After Replacement			Before Replacement	After Replacement
France	99%	99%	100%	96%	95%	95%
Italy	88%	94%	99%	97%	85%	90%
‡ Lebanon	70%	70%	100%	98%	68%	68%
Norway	100%	100%	100%	93%	93%	93%
† Portugal	80%	87%	98%	93%	73%	80%
Russian Federation	100%	100%	100%	98%	98%	98%
Russian Federation 6hr+	100%	100%	100%	98%	98%	98%
Slovenia	89%	89%	96%	87%	75%	75%
Sweden	99%	99%	99%	90%	88%	88%
‡ United States	72%	76%	100%	87%	63%	66%

TIMSS Advanced guidelines for sampling participation: The minimum acceptable participation rates were 85% of both schools and students, or a combined rate (the product of school and student participation) of 75%. Participants not meeting these guidelines were annotated as follows:

† Met guidelines for sample participation rates only after replacement schools were included.

‡ Nearly satisfied guidelines for sample participation rates after replacement schools were included.

‡ Did not satisfy guidelines for sample participation rates.