

Exhibit B.5: Participation Rates (Weighted)

Country	School Participation		Class Participation	Student Participation	Overall Participation	
	Before Replacement	After Replacement			Before Replacement	After Replacement
≡ Albania	54%	54%	97%	92%	48%	48%
Armenia	98%	99%	100%	96%	94%	95%
Australia	98%	99%	100%	91%	90%	90%
Azerbaijan	95%	99%	100%	93%	88%	92%
Bahrain	100%	100%	100%	98%	98%	98%
† Belgium (Flemish)	74%	92%	99%	91%	67%	84%
Belgium (French)	95%	99%	100%	95%	90%	94%
Bosnia & Herzegovina	99%	99%	96%	91%	87%	87%
Brazil	83%	95%	100%	95%	79%	90%
Bulgaria	96%	99%	100%	95%	92%	94%
Canada	81%	85%	100%	95%	77%	81%
† Chile	79%	98%	100%	90%	71%	89%
Chinese Taipei	97%	99%	100%	96%	93%	95%
Cyprus	99%	99%	100%	96%	95%	95%
Czech Republic	100%	100%	100%	96%	96%	96%
† Denmark	76%	97%	100%	94%	71%	91%
England	84%	86%	100%	94%	79%	81%
Finland	100%	100%	100%	95%	95%	95%
France	99%	99%	100%	98%	97%	97%
Georgia	97%	100%	100%	98%	95%	98%
Germany	97%	100%	100%	95%	93%	95%
† Hong Kong SAR	76%	89%	99%	90%	68%	80%
Hungary	100%	100%	100%	96%	96%	96%
Iran, Islamic Rep. of	100%	100%	100%	97%	97%	97%
Ireland	99%	100%	100%	93%	93%	93%
Italy	96%	100%	100%	96%	92%	96%
Japan	89%	94%	100%	95%	84%	90%
Jordan	100%	100%	100%	97%	97%	97%
Kazakhstan	98%	100%	100%	98%	96%	98%
Korea, Rep. of	93%	100%	100%	96%	89%	96%
Kosovo	100%	100%	100%	95%	95%	95%
Kuwait	93%	93%	100%	96%	89%	89%
Latvia	96%	99%	100%	92%	88%	91%
Lithuania	99%	100%	100%	92%	91%	92%
Macao SAR	100%	100%	100%	94%	94%	94%
Montenegro	100%	100%	100%	95%	95%	95%
Morocco	99%	99%	100%	98%	98%	98%
† Netherlands	54%	81%	100%	95%	51%	77%
† New Zealand	63%	88%	100%	89%	56%	78%
North Macedonia	99%	99%	100%	93%	92%	92%
Norway (5)	95%	96%	100%	92%	87%	88%
Oman	99%	100%	100%	97%	96%	97%
Poland	97%	100%	100%	89%	87%	89%
Portugal	97%	100%	100%	97%	93%	96%
Qatar	100%	100%	100%	96%	96%	96%
≡ Romania	69%	71%	98%	87%	59%	60%
Saudi Arabia	97%	100%	100%	98%	95%	98%
Serbia	99%	99%	100%	94%	92%	93%
Singapore	100%	100%	100%	95%	95%	95%
Slovak Republic	99%	100%	100%	96%	95%	96%
Slovenia	96%	99%	99%	92%	88%	91%
South Africa (5)	96%	96%	100%	87%	83%	83%
Spain	100%	100%	100%	93%	92%	92%
Sweden	100%	100%	100%	95%	94%	95%
Türkiye (5)	77%	100%	100%	98%	76%	98%
United Arab Emirates	98%	98%	100%	96%	94%	94%
† United States	63%	82%	99%	93%	58%	76%
Uzbekistan	100%	100%	100%	99%	99%	99%
Benchmarking Participants						
Ontario, Canada	95%	95%	100%	95%	90%	90%
Quebec, Canada	79%	85%	99%	96%	75%	81%
Abu Dhabi, UAE	97%	97%	100%	97%	93%	93%
Dubai, UAE	99%	99%	100%	95%	95%	95%
Sharjah, UAE	99%	99%	100%	95%	94%	94%

TIMSS guidelines for sampling participation: The minimum acceptable participation rates were 85 percent of schools, 95 percent of classes, and 85 percent of students, or a combined rate (the product of school, class, and student participation) of 75 percent.

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