

Exhibit 5.8: Participation Rates (Weighted) – TIMSS 2015 - Fourth Grade

Country	School Participation		Class Participation	Student Participation	Overall Participation	
	Before Replacement	After Replacement			Before Replacement	After Replacement
Australia	98%	99%	100%	95%	94%	94%
Bahrain (Combined)	100%	100%	100%	99%	99%	99%
Numeracy	100%	100%	100%	99%	99%	99%
TIMSS	100%	100%	100%	99%	99%	99%
[†] Belgium (Flemish)	74%	97%	100%	98%	73%	95%
Bulgaria	97%	97%	100%	96%	93%	93%
[†] Canada	80%	86%	99%	94%	74%	80%
Chile	87%	94%	100%	94%	82%	88%
Chinese Taipei	99%	100%	100%	99%	98%	99%
Croatia	99%	100%	99%	95%	93%	94%
Cyprus	100%	100%	100%	98%	98%	98%
Czech Republic	100%	100%	100%	95%	95%	95%
[†] Denmark	53%	91%	100%	95%	50%	86%
England	95%	98%	100%	98%	92%	96%
Finland	99%	100%	100%	97%	95%	97%
France	96%	99%	100%	98%	93%	97%
Georgia	99%	100%	100%	98%	97%	98%
Germany	97%	99%	100%	96%	93%	95%
[†] Hong Kong SAR	76%	82%	100%	93%	70%	76%
Hungary	99%	99%	100%	97%	96%	96%
Indonesia (Combined)	100%	100%	100%	99%	99%	99%
Numeracy	100%	100%	100%	99%	99%	99%
TIMSS	100%	100%	100%	99%	99%	99%
Iran, Islamic Rep. of (Combined)	100%	100%	100%	99%	99%	99%
Numeracy	100%	100%	100%	99%	99%	99%
TIMSS	100%	100%	100%	99%	99%	99%
Ireland	100%	100%	100%	96%	96%	96%
Italy	80%	99%	99%	95%	75%	94%
Japan	96%	99%	100%	98%	94%	97%
Jordan	100%	100%	100%	96%	96%	96%
Kazakhstan	97%	99%	100%	98%	95%	97%
Korea, Rep. of	100%	100%	100%	97%	97%	97%

TIMSS guidelines for sampling participation: The minimum acceptable participation rates were 85 percent of both schools and students, or a combined rate (the product of school 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.

Exhibit 5.8: Participation Rates (Weighted) – TIMSS 2015 - Fourth Grade (Continued)

Country	School Participation		Class Participation	Student Participation	Overall Participation	
	Before Replacement	After Replacement			Before Replacement	After Replacement
Kuwait (Combined)	94%	94%	100%	96%	90%	90%
Numeracy	94%	94%	100%	95%	89%	89%
TIMSS	94%	94%	100%	97%	90%	90%
Lithuania	99%	100%	100%	94%	93%	94%
Morocco (Combined)	100%	100%	100%	99%	99%	99%
Numeracy	100%	100%	100%	98%	98%	98%
TIMSS	100%	100%	100%	99%	99%	99%
[†] Netherlands	48%	87%	100%	96%	46%	83%
New Zealand	81%	96%	100%	94%	76%	90%
[‡] Northern Ireland	65%	76%	100%	93%	60%	71%
Norway (5)	93%	93%	100%	95%	89%	89%
Oman	97%	98%	100%	99%	96%	97%
Poland	91%	100%	100%	92%	84%	92%
Portugal	89%	99%	100%	93%	83%	92%
Qatar	100%	100%	100%	99%	99%	99%
Russian Federation	100%	100%	100%	98%	98%	98%
Saudi Arabia	95%	100%	100%	93%	88%	93%
Serbia	99%	100%	100%	96%	95%	96%
Singapore	100%	100%	100%	96%	96%	96%
Slovak Republic	98%	100%	100%	97%	95%	97%
Slovenia	96%	99%	100%	95%	91%	93%
South Africa (5)	99%	100%	100%	98%	98%	98%
Spain	98%	99%	100%	96%	95%	95%
Sweden	100%	100%	100%	95%	95%	95%
Turkey	100%	100%	100%	98%	98%	98%
United Arab Emirates	100%	100%	100%	97%	97%	97%
[†] United States	77%	85%	100%	96%	74%	81%
Benchmarking Participants						
Buenos Aires, Argentina (Combined)	86%	91%	93%	93%	74%	79%
Numeracy	86%	91%	93%	93%	74%	79%
TIMSS	86%	91%	93%	93%	75%	79%
Ontario, Canada	95%	95%	100%	95%	90%	90%
[‡] Quebec, Canada	48%	62%	100%	95%	46%	59%
Norway (4)	94%	94%	100%	95%	89%	89%
Abu Dhabi, UAE	100%	100%	100%	97%	97%	97%
Dubai, UAE	100%	100%	100%	97%	97%	97%
Florida, US	100%	100%	100%	95%	95%	95%