

## Exhibit A.5: Participation Rates (Weighted)

Grades 4–5	School Participation		Class Participation	Student Participation	Overall Participation	
	Before Replacement	After Replacement			Before Replacement	After Replacement
<b>Georgia</b>						
Grade 4	97%	100%	100%	98%	95%	98%
Grade 5	97%	100%	100%	90%	87%	90%
<b>Italy</b>						
Grade 4	96%	100%	100%	96%	92%	96%
Grade 5	96%	100%	100%	95%	92%	95%
<b>Jordan</b>						
Grade 4	100%	100%	100%	97%	97%	97%
Grade 5	100%	100%	100%	95%	95%	95%
<b>Korea, Rep. of</b>						
Grade 4	93%	100%	100%	96%	89%	96%
Grade 5	93%	100%	100%	89%	83%	89%
<b>Kosovo</b>						
Grade 4	100%	100%	100%	95%	95%	95%
Grade 5	100%	100%	100%	93%	93%	93%
<b>Montenegro</b>						
Grade 4	100%	100%	100%	95%	95%	95%
Grade 5	100%	100%	100%	94%	94%	94%
<b>North Macedonia</b>						
Grade 4	99%	99%	100%	93%	92%	92%
Grade 5	100%	100%	100%	90%	90%	90%
<b>Slovenia</b>						
Grade 4	96%	99%	99%	92%	88%	91%
Grade 5	96%	99%	99%	87%	83%	86%
<b>Sweden</b>						
Grade 4	100%	100%	100%	95%	94%	95%
Grade 5	100%	100%	100%	90%	90%	90%

Grades 8–9	School Participation		Class Participation	Student Participation	Overall Participation	
	Before Replacement	After Replacement			Before Replacement	After Replacement
<b>Jordan</b>						
Grade 8	100%	100%	100%	98%	98%	98%
Grade 9	100%	100%	100%	93%	93%	93%
<b>† Korea, Rep. of</b>						
Grade 8	80%	100%	100%	95%	76%	95%
Grade 9	80%	100%	100%	92%	74%	92%
<b>Sweden</b>						
Grade 8	99%	99%	100%	91%	90%	90%
Grade 9	99%	99%	100%	85%	84%	84%

Participation rates for Grades 5 and 9 (2024) were calculated excluding students not assessed due to inaccessibility (attrition).

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 for either time point 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