

Exhibit 6.2.1: Students Like Learning Mathematics

Students' Reports

About the Scale

Students were scored according to their responses to seven statements on the *Students Like Learning Mathematics* scale. Cut scores divide the scale into three categories. Students who **Very Much Like Learning Mathematics** had a score at or above the cut score corresponding to “agreeing a lot” with four of the seven statements and “agreeing a little” with the other three, on average. Students who **Do Not Like Learning Mathematics** had a score at or below the cut score corresponding to “disagreeing a little” with four of the seven statements and “agreeing a little” with the other three, on average. All other students **Somewhat Like Learning Mathematics**.

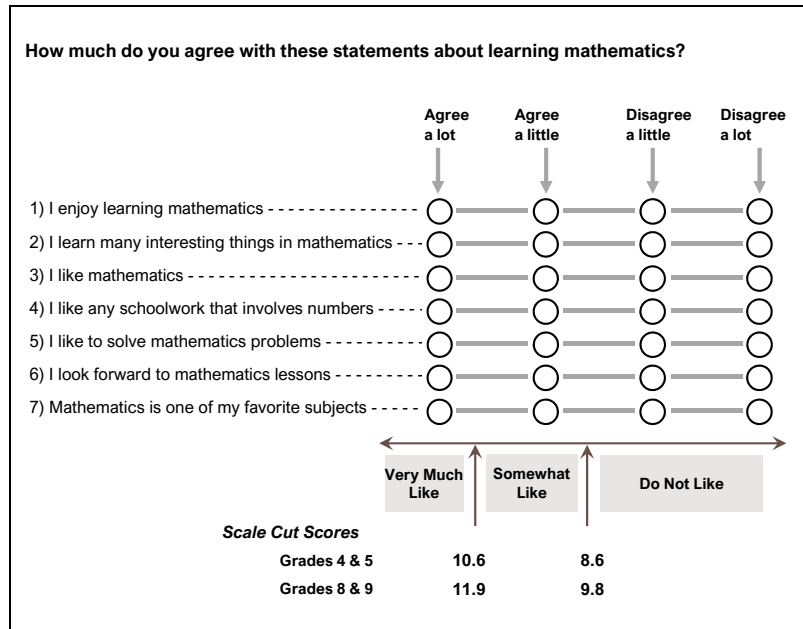


Exhibit 6.2.2a: Students Like Learning Mathematics and Growth in Achievement
Students' Reports in 2024

Country		Very Much Like Learning Mathematics		Somewhat Like Learning Mathematics		Do Not Like Learning Mathematics	
		Percent of Students	Average Growth	Percent of Students	Average Growth	Percent of Students	Average Growth
Georgia	r	51 (1.4)	26 (4.1)	34 (1.1)	22 (3.6)	15 (0.9)	16 (4.4)
Italy		30 (1.1)	41 (2.3)	37 (1.1)	38 (3.0)	33 (1.3)	37 (2.2)
Jordan	r	58 (2.2)	13 (4.8)	25 (1.3)	6 (5.1)	17 (1.3)	14 (5.9)
Korea, Rep. of	r	21 (0.9)	41 (3.1)	26 (0.6)	43 (2.2)	53 (1.0)	41 (2.1)
Kosovo		66 (1.3)	20 (2.3)	24 (1.1)	14 (2.6)	9 (0.7)	13 (5.8)
Montenegro		36 (1.1)	22 (2.3)	31 (0.9)	20 (2.3)	33 (1.2)	18 (2.4)
North Macedonia	r	57 (1.0)	20 (3.0)	28 (0.8)	17 (3.6)	15 (0.8)	12 (4.0)
Slovenia		21 (0.7)	43 (2.5)	34 (0.9)	48 (2.2)	45 (0.9)	40 (2.1)
Sweden		17 (0.9)	34 (3.2)	30 (0.9)	33 (2.0)	53 (1.4)	26 (1.7)

This TIMSS context questionnaire scale was established in 2023 based on the combined response distribution of countries that participated in TIMSS 2023. To provide a point of reference for country comparisons, the scale centerpoint of 10 was located at the mean of the combined distribution. The units of the scale were chosen so that 2 scale score points corresponded to the standard deviation of the distribution.

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

An "r" indicates data are available for at least 70% but less than 85% of the students.

SOURCE: IEA's Trends in International Mathematics and Science Study - TIMSS 2023 Longitudinal
 Downloaded from: <https://timss2023.org/longitudinal/results>

Exhibit 6.2.2b: Students Like Learning Mathematics and Average Achievement
Students' Reports in 2023 and 2024

Country	Very Much Like Learning Mathematics		Somewhat Like Learning Mathematics		Do Not Like Learning Mathematics		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Georgia							
Grade 4	68 (1.2)	508 (3.2)	26 (1.0)	491 (4.1)	6 (0.4)	479 (7.1)	11.2 (0.04)
Grade 5	51 (1.4)	534 (4.3)	34 (1.1)	509 (4.0)	15 (0.9)	509 (4.2)	10.5 (0.05)
Italy							
Grade 4	39 (1.2)	526 (3.2)	35 (0.9)	510 (3.6)	26 (1.3)	501 (4.1)	9.9 (0.06)
Grade 5	30 (1.1)	575 (3.1)	37 (1.1)	554 (3.6)	33 (1.3)	531 (3.5)	9.5 (0.06)
Jordan							
Grade 4	62 (1.7)	444 (5.7)	24 (1.0)	412 (6.7)	14 (1.1)	406 (9.1)	10.9 (0.07)
Grade 5	58 (2.2)	451 (5.8)	25 (1.3)	426 (5.9)	17 (1.3)	423 (6.7)	10.7 (0.09)
Korea, Rep. of							
Grade 4	22 (0.8)	624 (3.9)	30 (0.8)	605 (3.4)	49 (1.1)	576 (2.7)	8.9 (0.04)
Grade 5	21 (0.9)	666 (3.7)	26 (0.6)	647 (3.8)	53 (1.0)	617 (2.6)	8.6 (0.05)
Kosovo							
Grade 4	74 (1.0)	462 (3.2)	20 (0.8)	438 (4.1)	6 (0.5)	417 (7.4)	11.3 (0.03)
Grade 5	66 (1.3)	482 (3.5)	24 (1.1)	453 (4.2)	9 (0.7)	456 (6.3)	11.1 (0.05)
Montenegro							
Grade 4	53 (0.9)	489 (2.4)	30 (0.8)	470 (2.8)	17 (0.7)	468 (3.7)	10.5 (0.04)
Grade 5	36 (1.1)	510 (2.6)	31 (0.9)	490 (2.5)	33 (1.2)	493 (2.4)	9.6 (0.06)
North Macedonia							
Grade 4	67 (1.2)	487 (3.6)	24 (0.9)	469 (3.9)	9 (0.6)	466 (6.9)	11.1 (0.04)
Grade 5	57 (1.0)	505 (3.7)	28 (0.8)	486 (4.7)	15 (0.8)	489 (5.2)	10.7 (0.04)
Slovenia							
Grade 4	31 (0.9)	528 (3.1)	38 (0.8)	517 (2.3)	31 (1.0)	502 (2.6)	9.5 (0.04)
Grade 5	21 (0.7)	578 (3.6)	34 (0.9)	566 (2.6)	45 (0.9)	543 (2.4)	8.9 (0.04)
Sweden							
Grade 4	24 (1.0)	540 (4.6)	37 (1.0)	538 (3.5)	39 (1.2)	522 (2.5)	9.2 (0.05)
Grade 5	17 (0.9)	575 (6.0)	30 (0.9)	574 (3.9)	53 (1.4)	553 (2.7)	8.6 (0.06)

This TIMSS context questionnaire scale was established in 2023 based on the combined response distribution of countries that participated in TIMSS 2023. To provide a point of reference for country comparisons, the scale centerpoint of 10 was located at the mean of the combined distribution. The units of the scale were chosen so that 2 scale score points corresponded to the standard deviation of the distribution.

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Country		Very Much Like Learning Mathematics		Somewhat Like Learning Mathematics		Do Not Like Learning Mathematics	
		Percent of Students	Average Growth	Percent of Students	Average Growth	Percent of Students	Average Growth
Jordan	r	30 (0.9)	22 (3.7)	30 (0.8)	21 (3.7)	40 (1.0)	13 (3.0)
Korea, Rep. of		16 (0.7)	5 (2.9)	27 (0.8)	10 (2.6)	56 (0.9)	8 (1.8)
Sweden	r	15 (0.7)	12 (2.7)	27 (1.0)	19 (2.0)	58 (1.4)	11 (1.4)

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Exhibit 6.2.3b: Students Like Learning Mathematics and Average Achievement

Students' Reports in 2023 and 2024

Country	Very Much Like Learning Mathematics		Somewhat Like Learning Mathematics		Do Not Like Learning Mathematics		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Jordan							
Grade 8	37 (1.1)	403 (4.0)	33 (0.7)	390 (3.6)	30 (1.0)	384 (3.5)	10.9 (0.06)
Grade 9	30 (0.9)	421 (3.7)	30 (0.8)	406 (4.4)	40 (1.0)	397 (3.4)	10.4 (0.06)
Korea, Rep. of							
Grade 8	12 (0.6)	658 (4.6)	28 (0.7)	627 (4.2)	60 (0.8)	569 (3.0)	9.5 (0.04)
Grade 9	16 (0.7)	658 (4.6)	27 (0.8)	633 (3.9)	56 (0.9)	578 (2.9)	9.6 (0.04)
Sweden							
Grade 8	9 (0.5)	559 (6.8)	26 (1.1)	551 (3.5)	65 (1.3)	506 (2.1)	9.3 (0.05)
Grade 9	15 (0.7)	578 (6.9)	27 (1.0)	564 (4.5)	58 (1.4)	515 (2.5)	9.6 (0.06)

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