

Exhibit 6.2.4: Students Confident in Mathematics

About the Scale

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

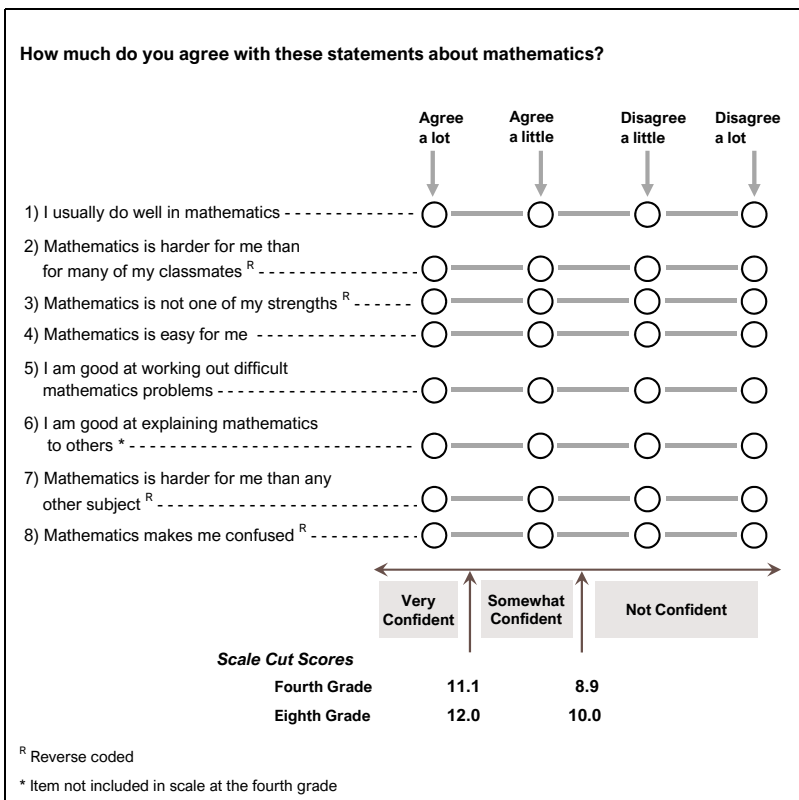


Exhibit 6.2.5: Students Confident in Mathematics

Country	Very Confident in Mathematics		Somewhat Confident in Mathematics		Not Confident in Mathematics		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Albania	36 (1.6)	543 (6.3)	39 (1.2)	511 (5.9)	26 (1.5)	484 (6.7)	10.5 (0.08)
Armenia	35 (0.9)	541 (2.7)	39 (0.9)	513 (3.2)	26 (1.1)	491 (4.3)	10.5 (0.05)
Australia	26 (0.9)	591 (3.4)	41 (0.8)	532 (3.1)	33 (0.9)	477 (3.3)	9.9 (0.05)
Azerbaijan	26 (1.0)	555 (3.8)	42 (0.8)	496 (3.7)	33 (1.0)	471 (3.4)	10.1 (0.04)
Bahrain	32 (1.1)	509 (5.1)	40 (0.8)	458 (4.5)	28 (1.1)	428 (5.0)	10.3 (0.05)
Belgium (Flemish)	28 (0.9)	565 (2.6)	42 (0.9)	526 (2.8)	29 (0.9)	481 (3.1)	10.0 (0.04)
Belgium (French)	34 (1.0)	532 (2.4)	41 (0.8)	484 (2.7)	25 (0.9)	448 (3.3)	10.3 (0.04)
Bosnia & Herzegovina	26 (1.1)	494 (3.6)	40 (1.6)	456 (4.6)	35 (1.5)	421 (3.9)	10.0 (0.06)
Brazil	17 (0.7)	465 (5.3)	41 (1.0)	416 (4.4)	42 (1.0)	385 (3.7)	9.6 (0.04)
Bulgaria	39 (1.3)	573 (3.6)	39 (0.9)	523 (4.1)	22 (1.0)	473 (6.8)	10.6 (0.06)
Canada	29 (0.6)	558 (2.3)	43 (0.6)	506 (2.1)	28 (0.6)	460 (2.5)	10.1 (0.03)
Chile	16 (0.8)	512 (3.3)	42 (0.9)	457 (3.2)	43 (1.0)	413 (3.2)	9.5 (0.04)
Chinese Taipei	18 (0.7)	653 (2.6)	39 (0.8)	616 (2.2)	44 (0.9)	583 (2.0)	9.4 (0.04)
Cyprus	41 (0.9)	559 (2.4)	37 (0.7)	506 (2.6)	22 (0.7)	462 (4.1)	10.7 (0.04)
Czech Republic	22 (0.8)	578 (2.9)	45 (0.7)	537 (2.5)	33 (0.9)	494 (3.1)	9.8 (0.03)
Denmark	23 (0.8)	572 (2.9)	45 (0.8)	529 (2.3)	33 (0.9)	487 (2.5)	9.8 (0.03)
England	28 (0.9)	614 (4.2)	39 (1.0)	564 (3.9)	33 (0.8)	500 (3.8)	9.9 (0.04)
Finland	31 (0.8)	574 (2.5)	47 (0.9)	529 (2.9)	23 (0.7)	483 (2.9)	10.2 (0.03)
France	33 (1.0)	528 (3.3)	41 (1.0)	484 (3.2)	27 (1.0)	439 (3.8)	10.3 (0.04)
Georgia	37 (1.1)	530 (3.2)	41 (0.9)	496 (4.1)	22 (1.0)	469 (3.7)	10.6 (0.05)
Germany	29 (0.9)	573 (2.4)	42 (0.8)	529 (2.3)	30 (0.9)	478 (3.3)	10.1 (0.04)
Hong Kong SAR	22 (0.9)	650 (4.2)	40 (0.9)	597 (4.1)	38 (1.0)	563 (4.5)	9.7 (0.06)
Hungary	30 (0.9)	582 (3.1)	42 (0.8)	518 (3.7)	28 (0.9)	471 (4.6)	10.2 (0.04)
Iran, Islamic Rep. of	29 (0.9)	465 (4.4)	43 (0.7)	419 (4.5)	28 (1.0)	385 (6.3)	10.2 (0.04)
Ireland	27 (0.8)	596 (3.1)	43 (1.1)	549 (3.3)	29 (1.1)	499 (3.7)	10.0 (0.04)
Italy	30 (1.0)	552 (2.9)	45 (0.9)	513 (3.2)	26 (1.0)	478 (3.9)	10.2 (0.05)
Japan	14 (0.5)	651 (3.4)	41 (0.9)	607 (2.6)	45 (1.0)	561 (2.7)	9.2 (0.03)
Jordan	28 (1.6)	469 (6.8)	39 (1.1)	421 (6.4)	33 (1.7)	409 (5.7)	10.2 (0.07)
Kazakhstan	25 (1.0)	536 (3.9)	51 (0.9)	488 (3.8)	24 (0.9)	449 (4.0)	10.2 (0.04)
Korea, Rep. of	22 (0.8)	644 (3.2)	43 (0.9)	606 (2.5)	34 (1.1)	549 (3.4)	9.7 (0.05)
Kosovo	31 (1.3)	498 (4.0)	41 (1.0)	447 (3.8)	27 (0.9)	419 (4.2)	10.3 (0.05)
Kuwait	27 (1.0)	434 (5.0)	44 (0.9)	390 (5.0)	29 (1.0)	358 (5.7)	10.2 (0.05)
Latvia	18 (0.9)	592 (4.6)	43 (1.1)	548 (2.8)	39 (1.0)	496 (3.3)	9.5 (0.04)
Lithuania	20 (0.8)	625 (2.9)	45 (1.0)	566 (3.0)	36 (1.0)	524 (3.3)	9.8 (0.03)
Macao SAR	28 (0.6)	628 (2.0)	38 (0.6)	585 (1.9)	34 (0.6)	542 (1.9)	10.0 (0.03)
Montenegro	36 (0.9)	515 (2.4)	36 (0.8)	474 (3.1)	28 (1.0)	447 (2.5)	10.5 (0.04)
Morocco	36 (1.4)	438 (5.8)	45 (1.0)	382 (5.2)	19 (0.9)	341 (4.9)	10.6 (0.05)
Netherlands	35 (1.0)	577 (1.9)	38 (1.1)	533 (2.8)	27 (0.9)	494 (3.1)	10.3 (0.04)
New Zealand	17 (0.7)	566 (4.5)	43 (0.9)	505 (3.0)	39 (1.0)	451 (2.5)	9.5 (0.03)
North Macedonia	30 (0.9)	525 (4.0)	39 (0.9)	478 (3.7)	31 (1.1)	444 (4.7)	10.3 (0.04)
Norway (5)	23 (0.7)	582 (2.8)	46 (0.9)	536 (2.3)	31 (0.9)	492 (2.9)	9.8 (0.03)
Oman	18 (0.9)	480 (5.7)	43 (0.7)	423 (4.8)	38 (1.1)	399 (3.7)	9.8 (0.04)
Poland	23 (0.8)	598 (2.7)	44 (0.7)	553 (2.4)	33 (1.1)	505 (2.5)	9.8 (0.04)
Portugal	22 (0.9)	575 (3.2)	38 (0.8)	530 (3.1)	39 (1.0)	476 (3.1)	9.7 (0.04)
Qatar	27 (0.8)	506 (4.1)	41 (0.7)	468 (3.8)	32 (0.9)	435 (4.0)	10.1 (0.03)
Romania	28 (1.3)	595 (5.0)	39 (1.1)	544 (5.0)	33 (1.1)	515 (5.2)	10.0 (0.06)
Saudi Arabia	23 (1.1)	469 (5.7)	42 (1.0)	423 (4.4)	35 (1.1)	407 (4.8)	10.0 (0.05)
Serbia	29 (1.0)	574 (4.0)	40 (1.1)	521 (3.8)	31 (1.1)	487 (3.4)	10.1 (0.05)
Singapore	23 (0.7)	681 (2.7)	36 (0.7)	631 (2.8)	41 (0.9)	567 (3.0)	9.6 (0.04)
Slovak Republic	28 (1.1)	563 (3.5)	42 (1.1)	510 (3.9)	30 (1.0)	481 (4.2)	10.1 (0.05)
Slovenia	29 (0.8)	561 (2.5)	42 (0.9)	517 (2.1)	29 (1.0)	471 (2.6)	10.1 (0.04)
South Africa (5)	20 (0.8)	439 (5.9)	48 (0.7)	354 (4.1)	31 (0.7)	325 (3.5)	9.9 (0.03)
Spain	23 (0.7)	554 (2.7)	42 (0.7)	502 (2.2)	35 (0.7)	463 (2.6)	9.8 (0.03)
Sweden	28 (0.8)	576 (3.4)	47 (0.6)	529 (3.0)	25 (0.7)	487 (3.4)	10.1 (0.04)
Türkiye (5)	25 (1.0)	616 (4.5)	40 (0.9)	554 (4.4)	36 (1.2)	511 (4.2)	9.8 (0.05)
United Arab Emirates	27 (0.4)	554 (1.7)	41 (0.4)	500 (1.5)	32 (0.4)	464 (1.8)	10.1 (0.02)
United States	28 (0.8)	590 (2.7)	39 (0.6)	521 (3.2)	32 (0.8)	464 (3.1)	10.0 (0.04)
Uzbekistan	40 (1.4)	481 (3.0)	37 (0.9)	433 (3.7)	23 (1.1)	406 (3.9)	10.8 (0.06)
International Average	27 (0.1)	554 (0.5)	42 (0.1)	506 (0.5)	31 (0.1)	467 (0.5)	
Benchmarking Participants							
Ontario, Canada	26 (1.1)	561 (4.2)	42 (1.1)	507 (3.7)	31 (1.0)	465 (3.8)	9.9 (0.05)
Quebec, Canada	34 (1.0)	560 (2.9)	44 (1.0)	510 (3.2)	22 (0.9)	463 (3.9)	10.4 (0.05)
Abu Dhabi, UAE	22 (0.6)	527 (3.2)	42 (0.6)	460 (2.4)	36 (0.8)	433 (2.5)	9.8 (0.03)
Dubai, UAE	30 (0.7)	605 (2.1)	43 (0.7)	556 (2.1)	28 (0.6)	514 (2.7)	10.2 (0.03)
Sharjah, UAE	30 (1.1)	548 (4.3)	40 (0.8)	504 (3.2)	30 (1.2)	473 (4.4)	10.3 (0.05)

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.

Exhibit 6.2.6: Students Confident in Mathematics

Country	Very Confident in Mathematics		Somewhat Confident in Mathematics		Not Confident in Mathematics		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Australia	12 (0.6)	607 (4.2)	32 (0.7)	549 (3.3)	55 (0.9)	473 (3.4)	9.9 (0.04)
Austria	13 (0.6)	568 (3.6)	38 (0.8)	530 (3.2)	49 (0.9)	487 (2.6)	10.1 (0.03)
Azerbaijan	14 (0.7)	566 (6.0)	29 (0.8)	500 (5.1)	57 (0.9)	462 (3.8)	10.2 (0.04)
Bahrain	16 (0.7)	520 (4.3)	32 (0.7)	443 (2.8)	51 (0.8)	397 (2.9)	10.4 (0.03)
Brazil	7 (0.4)	488 (7.9)	23 (0.5)	412 (4.0)	70 (0.6)	367 (2.6)	9.5 (0.04)
Chile	10 (0.5)	509 (4.8)	28 (0.9)	446 (3.8)	62 (1.1)	393 (3.1)	9.9 (0.03)
Chinese Taipei	11 (0.5)	683 (5.1)	23 (0.6)	655 (3.4)	67 (0.9)	572 (3.1)	9.2 (0.05)
Cote d'Ivoire	7 (0.6)	305 (8.9)	44 (1.0)	266 (5.1)	49 (1.3)	255 (4.5)	10.2 (0.03)
Cyprus	18 (0.7)	577 (4.6)	31 (0.7)	519 (3.7)	51 (0.9)	460 (2.2)	10.2 (0.04)
Czech Republic	12 (0.5)	590 (3.4)	34 (0.7)	548 (2.7)	54 (0.9)	485 (2.5)	9.8 (0.04)
England	15 (1.1)	614 (5.0)	37 (1.0)	552 (4.7)	49 (1.6)	486 (4.3)	10.1 (0.06)
Finland	13 (0.6)	596 (3.2)	30 (0.7)	538 (3.4)	57 (0.9)	473 (2.2)	9.9 (0.04)
France	14 (0.7)	560 (3.8)	32 (0.9)	509 (3.8)	53 (1.1)	447 (3.2)	9.9 (0.05)
Georgia	15 (0.8)	547 (4.6)	32 (0.9)	492 (3.6)	53 (1.1)	436 (3.6)	10.2 (0.04)
Hong Kong SAR	9 (0.5)	651 (8.4)	28 (0.9)	609 (5.0)	63 (0.9)	552 (4.9)	9.7 (0.04)
Hungary	17 (0.7)	587 (3.9)	32 (0.7)	532 (3.8)	52 (1.0)	466 (3.6)	10.1 (0.04)
Iran, Islamic Rep. of	13 (0.6)	502 (6.2)	33 (0.7)	440 (4.4)	54 (0.9)	395 (3.2)	10.1 (0.04)
Ireland	12 (0.6)	595 (4.2)	35 (0.8)	547 (3.7)	53 (1.0)	490 (2.2)	9.9 (0.05)
Israel	20 (0.8)	562 (6.1)	34 (0.8)	500 (4.1)	46 (1.0)	454 (3.6)	10.4 (0.05)
Italy	17 (0.7)	574 (3.9)	31 (0.8)	530 (3.8)	52 (1.0)	463 (2.8)	9.9 (0.04)
Japan	4 (0.4)	695 (5.1)	21 (0.7)	649 (3.8)	74 (0.7)	574 (3.2)	9.1 (0.04)
Jordan	12 (0.6)	464 (5.2)	36 (1.0)	400 (4.1)	52 (1.0)	372 (3.4)	10.4 (0.03)
Kazakhstan	10 (0.6)	539 (6.9)	35 (0.8)	479 (3.9)	55 (1.0)	428 (3.5)	10.1 (0.04)
Korea, Rep. of	12 (0.5)	680 (5.2)	28 (0.8)	643 (3.4)	61 (0.9)	559 (3.2)	9.6 (0.04)
Kuwait	12 (0.7)	475 (8.5)	33 (1.0)	422 (6.6)	55 (1.3)	374 (4.8)	10.0 (0.04)
Lithuania	10 (0.4)	621 (4.9)	29 (0.8)	553 (3.6)	62 (0.9)	482 (2.9)	9.8 (0.04)
Malaysia	4 (0.3)	511 (8.0)	26 (0.6)	429 (4.4)	70 (0.7)	400 (3.1)	9.6 (0.02)
Malta	15 (0.6)	583 (3.6)	31 (0.7)	523 (2.4)	54 (0.8)	473 (2.0)	10.0 (0.03)
Morocco	14 (0.6)	433 (4.0)	39 (0.7)	382 (3.4)	48 (0.9)	363 (3.4)	10.4 (0.03)
Norway (9)	14 (0.6)	589 (2.7)	32 (0.8)	536 (2.7)	55 (0.9)	468 (2.0)	9.9 (0.04)
Oman	13 (0.5)	487 (4.3)	40 (0.7)	423 (3.0)	47 (0.8)	390 (3.1)	10.4 (0.03)
Palestinian Nat'l Auth.	14 (0.7)	464 (4.1)	32 (0.8)	393 (3.4)	54 (1.0)	367 (2.9)	10.4 (0.03)
Portugal	11 (0.5)	572 (2.9)	22 (0.7)	523 (2.6)	66 (0.9)	445 (2.7)	9.4 (0.04)
Qatar	17 (0.9)	518 (7.2)	33 (0.9)	477 (5.2)	49 (1.2)	421 (3.9)	10.4 (0.06)
Romania	10 (0.8)	604 (6.3)	26 (0.8)	529 (6.5)	64 (1.2)	475 (4.4)	9.8 (0.06)
Saudi Arabia	14 (0.7)	470 (4.6)	35 (0.7)	414 (3.8)	51 (1.1)	377 (2.8)	10.4 (0.04)
Singapore	16 (1.0)	676 (5.2)	31 (0.8)	638 (4.8)	53 (1.5)	567 (6.7)	10.0 (0.07)
South Africa (9)	10 (0.4)	451 (4.9)	35 (0.7)	403 (3.9)	55 (0.9)	382 (3.1)	9.9 (0.03)
Sweden	14 (0.7)	609 (4.0)	32 (0.8)	552 (2.7)	54 (1.1)	485 (2.1)	10.0 (0.05)
Türkiye	14 (0.6)	632 (5.8)	25 (0.8)	552 (5.7)	61 (1.1)	465 (3.6)	9.7 (0.05)
United Arab Emirates	18 (0.5)	567 (2.8)	33 (0.4)	509 (1.8)	49 (0.5)	458 (1.8)	10.5 (0.02)
United States	15 (0.7)	566 (6.3)	33 (0.7)	515 (4.3)	51 (1.0)	456 (3.6)	10.1 (0.04)
Uzbekistan	18 (1.1)	479 (7.9)	39 (0.9)	425 (4.7)	43 (1.2)	400 (3.3)	10.7 (0.06)
International Average	13 (0.1)	555 (0.8)	32 (0.1)	500 (0.6)	55 (0.2)	446 (0.5)	
Benchmarking Participants							
Abu Dhabi, UAE	14 (0.5)	547 (3.9)	32 (0.7)	481 (2.7)	54 (0.9)	430 (2.6)	10.3 (0.03)
Dubai, UAE	22 (1.0)	621 (3.6)	34 (0.6)	563 (2.8)	44 (1.0)	503 (3.0)	10.6 (0.04)
Sharjah, UAE	20 (1.3)	548 (7.0)	33 (0.8)	511 (4.7)	47 (1.5)	467 (4.9)	10.7 (0.07)

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.