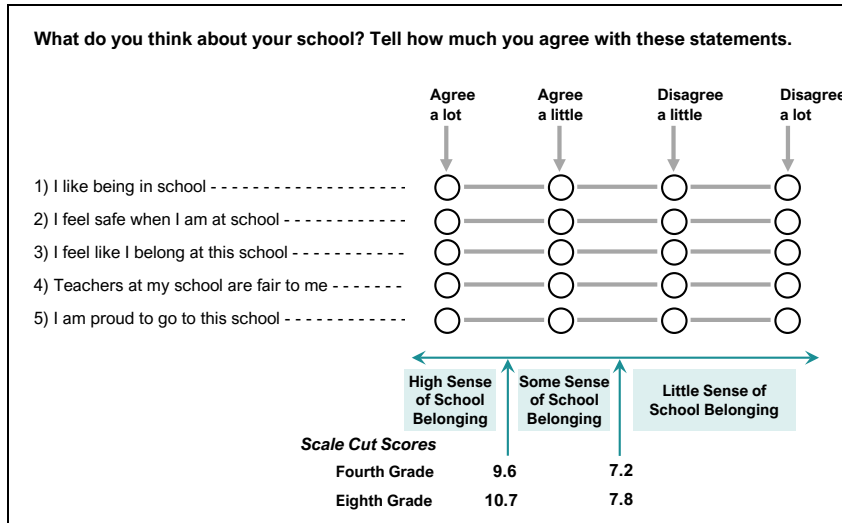


Exhibit 7.9: Students' Sense of School Belonging

Students' Reports

About the Scale

Students were scored according to their responses to five statements on the *Sense of School Belonging* scale. Cut scores divide the scale into three categories. Students with a **High Sense of School Belonging** had a score at or above the cut score corresponding to “agreeing a lot” with three of the five statements and “agreeing a little” with the other two statements, on average. Students with **Little Sense of School Belonging** had a score at or below the cut score corresponding to “disagreeing a little” to three of the five statements and “agreeing a little” with the other two statements, on average. All other students had **Some Sense of School Belonging**.



SOURCE: IEA's Trends in International Mathematics and Science Study - TIMSS 2019
Downloaded from <http://timss2019.org/download>

Exhibit 7.10: Students' Sense of School Belonging

Students' Reports

Country	High Sense of School Belonging		Some Sense of School Belonging		Little Sense of School Belonging		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Albania	96 (0.4)	496 (3.5)	4 (0.4)	482 (9.5)	0 (0.1)	--	12.3 (0.03)
Kosovo	94 (0.5)	448 (2.8)	6 (0.5)	424 (9.4)	0 (0.1)	--	12.2 (0.03)
North Macedonia	82 (1.1)	481 (5.1)	16 (1.1)	463 (10.3)	2 (0.2)	--	11.4 (0.05)
Montenegro	81 (0.7)	456 (2.0)	16 (0.6)	449 (4.1)	3 (0.2)	443 (11.4)	11.2 (0.04)
Morocco	80 (1.1)	391 (4.7)	18 (0.9)	362 (6.3)	3 (0.4)	331 (13.4)	11.3 (0.06)
Azerbaijan	78 (1.1)	526 (2.4)	19 (0.9)	514 (4.6)	3 (0.4)	497 (8.9)	11.1 (0.06)
Portugal	76 (1.3)	526 (2.7)	21 (1.1)	522 (3.6)	3 (0.4)	518 (8.9)	10.9 (0.06)
Georgia	74 (1.3)	481 (4.1)	24 (1.3)	484 (5.2)	2 (0.3)	--	11.0 (0.05)
Pakistan	74 (3.0)	333 (13.0)	21 (2.5)	328 (14.8)	6 (1.1)	294 (13.2)	11.0 (0.16)
Bulgaria	72 (1.4)	512 (4.0)	23 (1.1)	528 (7.1)	4 (0.5)	530 (10.1)	10.7 (0.07)
Armenia	72 (1.2)	506 (2.6)	24 (0.9)	496 (3.8)	4 (0.6)	493 (7.3)	10.8 (0.08)
Turkey (5)	71 (1.1)	533 (4.4)	25 (0.9)	500 (6.0)	4 (0.4)	497 (12.7)	10.7 (0.05)
Kazakhstan	68 (1.3)	517 (2.8)	29 (1.1)	507 (3.1)	3 (0.4)	498 (7.7)	10.6 (0.06)
Bosnia and Herzegovina	68 (1.2)	455 (2.6)	26 (1.0)	452 (3.5)	6 (0.4)	436 (5.2)	10.5 (0.06)
Spain	67 (1.3)	508 (2.6)	27 (1.1)	498 (3.6)	6 (0.5)	474 (6.9)	10.4 (0.06)
Saudi Arabia	65 (1.1)	409 (3.7)	27 (1.0)	393 (4.2)	8 (0.5)	383 (6.7)	10.5 (0.06)
Oman	64 (1.3)	443 (4.3)	28 (1.0)	418 (4.4)	8 (0.6)	406 (6.8)	10.4 (0.07)
Norway (5)	64 (1.4)	549 (2.5)	31 (1.2)	540 (3.6)	5 (0.7)	517 (7.8)	10.2 (0.06)
Serbia	63 (1.4)	506 (4.0)	32 (1.1)	514 (3.5)	5 (0.7)	504 (5.9)	10.1 (0.06)
Bahrain	62 (1.3)	484 (3.0)	30 (1.0)	477 (2.8)	8 (0.6)	469 (6.2)	10.2 (0.07)
Ireland	61 (1.4)	556 (3.1)	32 (1.1)	543 (3.7)	7 (0.8)	519 (6.2)	10.0 (0.06)
Finland	60 (1.0)	538 (2.3)	34 (0.8)	528 (3.7)	6 (0.6)	506 (4.9)	10.0 (0.05)
Northern Ireland	60 (1.7)	576 (3.4)	33 (1.3)	557 (3.9)	8 (0.7)	529 (8.2)	10.0 (0.07)
Lithuania	60 (1.5)	544 (2.9)	35 (1.4)	542 (4.1)	5 (0.4)	529 (7.5)	10.0 (0.06)
Netherlands	59 (1.4)	542 (2.3)	33 (1.2)	535 (3.2)	7 (0.7)	515 (7.0)	10.0 (0.06)
United Arab Emirates	59 (0.6)	495 (2.0)	31 (0.5)	470 (2.0)	10 (0.3)	451 (3.6)	10.1 (0.03)
New Zealand	59 (1.2)	495 (3.0)	33 (0.9)	481 (3.2)	9 (0.6)	466 (5.0)	10.0 (0.06)
Austria	58 (1.2)	545 (2.4)	34 (0.9)	534 (2.5)	7 (0.6)	523 (4.8)	9.9 (0.05)
Malta	57 (0.8)	513 (1.8)	33 (0.8)	508 (2.4)	10 (0.4)	493 (4.4)	10.0 (0.04)
Kuwait	57 (1.5)	398 (5.6)	31 (1.2)	380 (5.3)	12 (0.7)	373 (7.9)	10.0 (0.08)
Chile	57 (1.2)	450 (2.9)	36 (1.0)	437 (3.1)	7 (0.7)	407 (6.3)	10.0 (0.06)
Cyprus	56 (1.5)	534 (2.7)	31 (0.9)	535 (4.1)	13 (0.9)	519 (5.0)	9.8 (0.08)
England	56 (1.7)	565 (4.6)	35 (1.4)	550 (3.3)	9 (0.8)	527 (7.5)	9.8 (0.08)
South Africa (5)	56 (1.2)	388 (3.9)	36 (1.0)	364 (4.1)	8 (0.5)	351 (5.6)	10.0 (0.06)
Denmark	55 (1.1)	534 (2.4)	36 (1.1)	518 (3.1)	9 (0.7)	503 (6.0)	9.8 (0.05)
Iran, Islamic Rep. of	55 (1.6)	439 (4.0)	38 (1.4)	455 (4.5)	8 (0.6)	439 (7.3)	10.0 (0.07)
Hungary	54 (1.4)	527 (3.1)	37 (1.2)	522 (3.5)	9 (0.8)	510 (5.4)	9.8 (0.06)
Australia	54 (1.2)	526 (3.2)	36 (0.9)	509 (3.3)	10 (0.6)	490 (6.4)	9.8 (0.06)
Belgium (Flemish)	54 (1.3)	539 (2.0)	38 (1.1)	529 (2.4)	8 (0.5)	506 (4.7)	9.8 (0.06)
Canada	53 (0.8)	515 (2.4)	37 (0.7)	510 (2.1)	10 (0.4)	495 (4.2)	9.7 (0.03)
Italy	52 (1.1)	521 (3.0)	39 (0.9)	511 (3.2)	8 (0.6)	497 (4.8)	9.6 (0.05)
United States	52 (1.1)	549 (2.7)	34 (0.8)	530 (3.0)	14 (0.6)	502 (5.1)	9.6 (0.05)
Sweden	51 (1.9)	529 (3.6)	40 (1.4)	517 (2.9)	9 (0.9)	501 (6.0)	9.6 (0.08)
Qatar	50 (1.2)	461 (3.9)	36 (0.9)	445 (4.6)	14 (0.8)	433 (6.1)	9.6 (0.06)
Slovak Republic	49 (1.5)	507 (4.1)	42 (1.1)	515 (3.6)	10 (0.8)	506 (6.1)	9.5 (0.07)
Germany	47 (1.4)	535 (2.8)	41 (1.1)	517 (2.7)	12 (0.8)	505 (4.5)	9.4 (0.06)
Russian Federation	47 (1.3)	570 (4.5)	43 (1.1)	567 (3.1)	10 (0.7)	556 (4.2)	9.4 (0.06)
Philippines	46 (2.0)	320 (7.6)	44 (1.5)	289 (6.6)	10 (0.7)	257 (7.5)	9.5 (0.09)
Singapore	45 (0.9)	633 (4.1)	44 (0.6)	624 (4.1)	11 (0.5)	602 (4.9)	9.4 (0.04)
Latvia	42 (1.4)	552 (3.0)	47 (1.1)	546 (3.2)	11 (0.7)	531 (4.1)	9.2 (0.05)
France	40 (1.2)	491 (3.8)	52 (1.1)	485 (3.5)	8 (0.5)	458 (6.1)	9.3 (0.05)
Korea, Rep. of	40 (1.4)	610 (2.8)	54 (1.2)	595 (2.7)	6 (0.5)	575 (8.0)	9.4 (0.06)
Czech Republic	40 (1.7)	534 (3.8)	49 (1.4)	537 (2.6)	11 (0.8)	517 (5.0)	9.2 (0.07)
Croatia	38 (1.3)	512 (3.3)	54 (1.3)	509 (2.7)	9 (0.6)	506 (5.6)	9.2 (0.06)
Chinese Taipei	34 (1.2)	603 (3.0)	51 (1.1)	601 (2.3)	14 (0.8)	584 (3.5)	8.9 (0.05)
Poland	34 (1.1)	518 (4.1)	49 (0.9)	526 (2.7)	16 (0.9)	514 (4.1)	8.9 (0.05)
Hong Kong SAR	34 (1.5)	612 (5.1)	45 (1.5)	602 (3.3)	21 (1.3)	586 (4.6)	8.8 (0.08)
Japan	32 (1.3)	603 (2.7)	55 (1.0)	592 (2.2)	13 (0.9)	576 (3.8)	9.0 (0.06)
International Average	58 (0.2)	508 (0.5)	34 (0.1)	498 (0.6)	8 (0.1)	484 (0.9)	
Benchmarking Participants							
Madrid, Spain	68 (1.5)	519 (2.5)	26 (1.2)	520 (3.2)	6 (0.6)	508 (6.9)	10.4 (0.06)
Dubai, UAE	66 (0.6)	549 (1.6)	27 (0.6)	537 (2.7)	6 (0.3)	523 (5.4)	10.4 (0.03)
Ontario, Canada	53 (1.4)	519 (4.2)	37 (1.1)	509 (3.5)	10 (0.7)	495 (6.8)	9.7 (0.06)
Abu Dhabi, UAE	50 (1.0)	450 (2.5)	35 (0.7)	438 (2.8)	15 (0.7)	423 (5.1)	9.6 (0.05)
Quebec, Canada	47 (1.5)	535 (2.8)	41 (1.3)	533 (3.2)	12 (1.0)	511 (4.7)	9.4 (0.07)
Moscow City, Russian Fed.	40 (1.3)	597 (2.7)	46 (1.0)	593 (2.4)	14 (0.8)	582 (4.1)	9.1 (0.06)

This TIMSS context questionnaire scale was established in 2015 based on the combined response distribution of all countries that participated in TIMSS 2015. 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.

A tilde (~) indicates insufficient data to report achievement.

Exhibit 7.11: Students' Sense of School Belonging

Students' Reports

Country	High Sense of School Belonging		Some Sense of School Belonging		Little Sense of School Belonging		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Albania	96 (0.4)	492 (3.7)	4 (0.4)	473 (8.8)	0 (0.1)	--	12.3 (0.03)
Kosovo	94 (0.5)	418 (3.6)	6 (0.5)	382 (11.8)	0 (0.1)	--	12.2 (0.03)
North Macedonia	82 (1.1)	435 (6.2)	16 (1.1)	416 (10.3)	2 (0.2)	--	11.4 (0.05)
Montenegro	81 (0.7)	456 (2.3)	16 (0.6)	454 (4.9)	3 (0.2)	454 (11.4)	11.2 (0.04)
Morocco	80 (1.1)	385 (6.4)	18 (0.9)	344 (7.6)	3 (0.4)	310 (15.1)	11.3 (0.06)
Azerbaijan	78 (1.1)	437 (2.9)	19 (0.9)	430 (5.5)	3 (0.4)	422 (11.3)	11.1 (0.06)
Portugal	76 (1.3)	505 (2.8)	21 (1.1)	502 (3.5)	3 (0.4)	497 (5.7)	10.9 (0.06)
Georgia	74 (1.3)	452 (4.4)	24 (1.3)	458 (5.8)	2 (0.3)	--	11.0 (0.05)
Pakistan	74 (3.0)	294 (14.9)	21 (2.5)	294 (16.3)	6 (1.1)	261 (18.7)	11.0 (0.16)
Bulgaria	72 (1.4)	518 (4.9)	23 (1.1)	539 (7.6)	4 (0.5)	529 (12.7)	10.7 (0.07)
Armenia	72 (1.2)	476 (3.6)	24 (0.9)	462 (4.5)	4 (0.6)	447 (8.3)	10.8 (0.08)
Turkey (5)	71 (1.1)	536 (4.2)	25 (0.9)	507 (5.8)	4 (0.4)	509 (12.1)	10.7 (0.05)
Kazakhstan	68 (1.3)	501 (3.5)	29 (1.1)	484 (4.0)	3 (0.4)	479 (10.8)	10.6 (0.06)
Bosnia and Herzegovina	68 (1.2)	462 (3.4)	26 (1.0)	458 (3.6)	6 (0.4)	443 (5.7)	10.5 (0.06)
Spain	67 (1.3)	517 (2.0)	27 (1.1)	506 (3.5)	6 (0.5)	486 (6.7)	10.4 (0.06)
Saudi Arabia	65 (1.1)	416 (3.9)	27 (1.0)	395 (4.6)	8 (0.5)	381 (8.8)	10.5 (0.06)
Oman	64 (1.3)	450 (4.4)	28 (1.0)	421 (5.1)	8 (0.6)	407 (9.1)	10.4 (0.07)
Norway (5)	64 (1.4)	543 (2.6)	31 (1.2)	536 (3.4)	5 (0.7)	526 (6.9)	10.2 (0.06)
Serbia	63 (1.4)	514 (4.3)	32 (1.1)	525 (3.6)	5 (0.7)	513 (6.8)	10.1 (0.06)
Bahrain	62 (1.3)	502 (3.5)	30 (1.0)	484 (3.8)	8 (0.6)	470 (6.7)	10.2 (0.07)
Ireland	61 (1.4)	535 (4.0)	32 (1.1)	524 (3.7)	7 (0.8)	498 (6.7)	10.0 (0.06)
Finland	60 (1.0)	559 (2.5)	34 (0.8)	551 (3.5)	6 (0.6)	540 (5.6)	10.0 (0.05)
Northern Ireland	60 (1.7)	527 (2.7)	33 (1.3)	510 (3.1)	8 (0.7)	497 (6.1)	10.0 (0.07)
Lithuania	60 (1.5)	540 (2.8)	35 (1.4)	537 (3.5)	5 (0.4)	527 (7.6)	10.0 (0.06)
Netherlands	59 (1.4)	524 (2.9)	33 (1.2)	516 (3.4)	7 (0.7)	489 (8.3)	10.0 (0.06)
United Arab Emirates	59 (0.6)	490 (2.4)	31 (0.5)	459 (2.4)	10 (0.3)	431 (3.7)	10.1 (0.03)
New Zealand	59 (1.2)	510 (2.9)	33 (0.9)	496 (2.7)	9 (0.6)	485 (4.9)	10.0 (0.06)
Austria	58 (1.2)	528 (2.6)	34 (0.9)	517 (3.2)	7 (0.6)	507 (6.6)	9.9 (0.05)
Malta	57 (0.8)	498 (1.6)	33 (0.8)	498 (2.5)	10 (0.4)	482 (4.7)	10.0 (0.04)
Kuwait	57 (1.5)	412 (6.8)	31 (1.2)	388 (6.8)	12 (0.7)	367 (8.4)	10.0 (0.08)
Chile	57 (1.2)	477 (2.8)	36 (1.0)	467 (3.1)	7 (0.7)	436 (6.6)	10.0 (0.06)
Cyprus	56 (1.5)	514 (3.1)	31 (0.9)	512 (4.0)	13 (0.9)	498 (4.9)	9.8 (0.08)
England	56 (1.7)	544 (3.9)	35 (1.4)	533 (3.2)	9 (0.8)	517 (5.6)	9.8 (0.08)
South Africa (5)	56 (1.2)	343 (5.4)	36 (1.0)	313 (5.6)	8 (0.5)	293 (8.5)	10.0 (0.06)
Denmark	55 (1.1)	530 (2.8)	36 (1.1)	515 (3.3)	9 (0.7)	504 (5.6)	9.8 (0.05)
Iran, Islamic Rep. of	55 (1.6)	436 (4.3)	38 (1.4)	454 (4.8)	8 (0.6)	440 (7.5)	10.0 (0.07)
Hungary	54 (1.4)	532 (3.2)	37 (1.2)	529 (3.5)	9 (0.8)	518 (5.5)	9.8 (0.06)
Australia	54 (1.2)	541 (2.9)	36 (0.9)	528 (2.7)	10 (0.6)	510 (5.6)	9.8 (0.06)
Belgium (Flemish)	54 (1.3)	508 (2.2)	38 (1.1)	496 (2.6)	8 (0.5)	476 (5.1)	9.8 (0.06)
Canada	53 (0.8)	528 (2.3)	37 (0.7)	520 (2.2)	10 (0.4)	514 (3.4)	9.7 (0.03)
Italy	52 (1.1)	515 (3.3)	39 (0.9)	506 (3.7)	8 (0.6)	495 (5.1)	9.6 (0.05)
United States	52 (1.1)	551 (2.6)	34 (0.8)	536 (3.3)	14 (0.6)	509 (4.5)	9.6 (0.05)
Sweden	51 (1.9)	544 (4.1)	40 (1.4)	533 (3.6)	9 (0.9)	521 (6.3)	9.6 (0.08)
Qatar	50 (1.2)	467 (4.1)	36 (0.9)	443 (5.9)	14 (0.8)	422 (7.0)	9.6 (0.06)
Slovak Republic	49 (1.5)	514 (4.8)	42 (1.1)	529 (3.7)	10 (0.8)	525 (6.6)	9.5 (0.07)
Germany	47 (1.4)	533 (2.9)	41 (1.1)	514 (2.9)	12 (0.8)	507 (5.2)	9.4 (0.06)
Russian Federation	47 (1.3)	567 (4.2)	43 (1.1)	569 (2.7)	10 (0.7)	564 (3.9)	9.4 (0.06)
Philippines	46 (2.0)	272 (9.4)	44 (1.5)	242 (7.6)	10 (0.7)	205 (8.1)	9.5 (0.09)
Singapore	45 (0.9)	600 (3.7)	44 (0.6)	594 (3.5)	11 (0.5)	578 (4.9)	9.4 (0.04)
Latvia	42 (1.4)	546 (2.7)	47 (1.1)	542 (3.0)	11 (0.7)	529 (4.5)	9.2 (0.05)
France	40 (1.2)	494 (4.1)	52 (1.1)	487 (3.3)	8 (0.5)	462 (6.0)	9.3 (0.05)
Korea, Rep. of	40 (1.4)	596 (2.9)	54 (1.2)	584 (2.5)	6 (0.5)	568 (6.8)	9.4 (0.06)
Czech Republic	40 (1.7)	534 (3.3)	49 (1.4)	538 (3.0)	11 (0.8)	521 (4.9)	9.2 (0.07)
Croatia	38 (1.3)	529 (2.8)	54 (1.3)	522 (2.5)	9 (0.6)	514 (4.9)	9.2 (0.06)
Chinese Taipei	34 (1.2)	563 (2.4)	51 (1.1)	559 (2.1)	14 (0.8)	545 (4.2)	8.9 (0.05)
Poland	34 (1.1)	529 (3.7)	49 (0.9)	537 (2.4)	16 (0.9)	525 (4.4)	8.9 (0.05)
Hong Kong SAR	34 (1.5)	543 (4.3)	45 (1.5)	530 (3.6)	21 (1.3)	516 (5.9)	8.8 (0.08)
Japan	32 (1.3)	569 (2.5)	55 (1.0)	561 (2.4)	13 (0.9)	549 (3.5)	9.0 (0.06)
International Average	58 (0.2)	497 (0.6)	34 (0.1)	487 (0.7)	8 (0.1)	476 (1.0)	
Benchmarking Participants							
Madrid, Spain	68 (1.5)	524 (2.3)	26 (1.2)	524 (3.0)	6 (0.6)	511 (7.8)	10.4 (0.06)
Dubai, UAE	66 (0.6)	550 (1.8)	27 (0.6)	537 (2.5)	6 (0.3)	522 (5.2)	10.4 (0.03)
Ontario, Canada	53 (1.4)	530 (3.8)	37 (1.1)	521 (3.6)	10 (0.7)	518 (5.2)	9.7 (0.06)
Abu Dhabi, UAE	50 (1.0)	431 (3.5)	35 (0.7)	415 (3.2)	15 (0.7)	390 (5.6)	9.6 (0.05)
Quebec, Canada	47 (1.5)	525 (3.3)	41 (1.3)	522 (3.1)	12 (1.0)	509 (3.9)	9.4 (0.07)
Moscow City, Russian Fed.	40 (1.3)	596 (3.2)	46 (1.0)	596 (2.3)	14 (0.8)	588 (3.7)	9.1 (0.06)

This TIMSS context questionnaire scale was established in 2015 based on the combined response distribution of all countries that participated in TIMSS 2015. 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.

A tilde (~) indicates insufficient data to report achievement.

Exhibit 7.12: Students' Sense of School Belonging

Students' Reports

Country	High Sense of School Belonging		Some Sense of School Belonging		Little Sense of School Belonging		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Egypt	66 (1.3)	417 (5.3)	27 (0.9)	410 (6.1)	7 (0.7)	418 (8.6)	11.1 (0.06)
Jordan	62 (1.3)	424 (3.9)	30 (0.9)	422 (5.1)	9 (0.8)	411 (8.1)	10.9 (0.07)
Morocco	58 (1.2)	387 (3.0)	34 (1.0)	389 (2.3)	8 (0.6)	397 (6.5)	10.8 (0.05)
Romania	54 (1.3)	484 (4.8)	35 (1.0)	480 (5.7)	10 (0.8)	465 (7.5)	10.5 (0.06)
Turkey	54 (1.3)	500 (4.1)	37 (1.0)	490 (5.4)	9 (0.7)	494 (8.9)	10.5 (0.06)
Kazakhstan	51 (1.4)	491 (4.0)	44 (1.2)	485 (3.5)	5 (0.5)	489 (6.2)	10.6 (0.06)
South Africa (9)	48 (0.7)	391 (2.4)	43 (0.5)	390 (2.4)	9 (0.4)	392 (3.5)	10.3 (0.03)
Georgia	47 (1.4)	463 (5.2)	44 (1.2)	463 (4.6)	10 (0.7)	457 (8.3)	10.2 (0.06)
Lebanon	46 (1.4)	440 (3.5)	42 (1.1)	426 (3.8)	12 (0.8)	411 (5.6)	10.2 (0.06)
Saudi Arabia	45 (1.2)	398 (3.2)	43 (0.9)	394 (2.7)	12 (0.6)	387 (4.2)	10.2 (0.05)
Oman	44 (1.1)	425 (3.0)	44 (0.9)	406 (3.5)	11 (0.6)	392 (4.9)	10.1 (0.05)
Finland	43 (1.1)	523 (3.2)	48 (0.9)	505 (2.5)	9 (0.6)	471 (5.5)	10.2 (0.05)
Israel	42 (1.3)	520 (5.2)	43 (1.0)	527 (4.9)	14 (0.9)	504 (7.1)	10.0 (0.06)
Kuwait	42 (1.2)	414 (5.4)	41 (1.0)	403 (5.0)	17 (1.1)	382 (6.2)	9.9 (0.06)
United Arab Emirates	41 (0.8)	493 (3.0)	42 (0.7)	472 (1.8)	16 (0.4)	439 (3.5)	9.9 (0.04)
Norway (9)	41 (1.4)	514 (3.1)	47 (1.2)	504 (3.1)	12 (0.8)	470 (5.7)	10.0 (0.06)
Bahrain	38 (1.0)	491 (3.0)	46 (0.9)	480 (1.9)	16 (0.8)	462 (4.2)	9.8 (0.05)
Malaysia	37 (1.1)	461 (3.6)	58 (1.0)	461 (3.6)	5 (0.5)	462 (8.3)	10.0 (0.04)
Iran, Islamic Rep. of	36 (1.1)	455 (4.6)	50 (0.9)	440 (3.9)	14 (0.9)	448 (6.1)	9.9 (0.06)
New Zealand	33 (0.9)	503 (3.8)	53 (0.7)	482 (3.7)	14 (0.8)	439 (5.6)	9.7 (0.04)
Ireland	33 (1.2)	545 (3.1)	51 (1.1)	523 (2.9)	17 (1.0)	489 (4.5)	9.6 (0.05)
Portugal	32 (1.4)	508 (3.9)	53 (1.0)	499 (3.5)	15 (1.0)	490 (5.1)	9.6 (0.06)
Lithuania	31 (1.4)	528 (3.8)	57 (1.2)	521 (3.1)	12 (0.8)	504 (5.8)	9.7 (0.06)
United States	31 (0.9)	547 (5.6)	48 (0.8)	518 (4.9)	22 (0.9)	476 (4.5)	9.4 (0.04)
Qatar	31 (1.3)	456 (6.3)	48 (0.8)	450 (4.4)	22 (1.1)	414 (4.4)	9.4 (0.08)
Chile	30 (1.1)	447 (3.7)	57 (1.1)	441 (3.2)	13 (0.8)	428 (4.4)	9.6 (0.04)
Australia	30 (0.9)	548 (4.6)	50 (0.8)	516 (4.1)	20 (0.9)	476 (4.1)	9.4 (0.05)
Hungary	30 (1.2)	536 (5.4)	52 (1.0)	514 (3.3)	18 (1.1)	492 (4.7)	9.5 (0.06)
Singapore	28 (0.8)	636 (4.4)	58 (0.8)	614 (4.2)	14 (0.5)	581 (5.6)	9.5 (0.03)
Sweden	28 (1.2)	515 (3.8)	57 (0.9)	505 (2.7)	15 (0.9)	475 (4.6)	9.5 (0.05)
England	27 (1.3)	544 (6.0)	53 (1.0)	521 (5.4)	19 (1.0)	470 (6.9)	9.3 (0.06)
Italy	27 (1.3)	500 (4.0)	58 (0.9)	500 (2.8)	15 (0.8)	485 (4.4)	9.4 (0.05)
Russian Federation	25 (1.2)	551 (5.9)	59 (1.0)	544 (4.7)	16 (0.8)	533 (5.2)	9.4 (0.05)
Chinese Taipei	23 (1.0)	624 (5.5)	60 (0.9)	613 (2.5)	17 (0.8)	596 (4.5)	9.3 (0.04)
Cyprus	22 (0.9)	520 (3.6)	48 (1.0)	504 (2.2)	30 (1.2)	482 (2.7)	8.9 (0.05)
Korea, Rep. of	22 (0.9)	627 (4.5)	65 (0.9)	606 (2.9)	14 (0.7)	577 (5.6)	9.3 (0.04)
Japan	21 (1.1)	602 (3.9)	59 (0.8)	598 (3.1)	19 (0.9)	574 (4.1)	9.2 (0.05)
Hong Kong SAR	21 (0.9)	593 (6.8)	57 (1.0)	586 (3.7)	23 (1.1)	548 (6.3)	9.1 (0.05)
France	20 (0.9)	490 (3.9)	68 (0.8)	485 (2.7)	12 (0.7)	459 (4.4)	9.3 (0.04)
International Average	37 (0.2)	500 (0.7)	49 (0.2)	489 (0.6)	14 (0.1)	470 (0.9)	
Benchmarking Participants							
Western Cape, RSA (9)	46 (1.3)	442 (5.1)	44 (0.8)	443 (4.6)	10 (0.8)	439 (5.8)	10.2 (0.06)
Dubai, UAE	43 (1.1)	550 (2.8)	44 (1.1)	534 (3.3)	12 (0.5)	500 (4.6)	10.1 (0.04)
Gauteng, RSA (9)	41 (1.2)	420 (3.8)	47 (0.9)	422 (3.3)	13 (0.9)	428 (4.3)	10.0 (0.05)
Ontario, Canada	38 (1.5)	543 (5.1)	47 (1.3)	530 (5.0)	15 (1.1)	498 (4.6)	9.9 (0.07)
Abu Dhabi, UAE	33 (1.1)	463 (3.9)	46 (0.8)	434 (3.1)	21 (0.7)	410 (5.4)	9.5 (0.06)
Quebec, Canada	29 (1.4)	562 (4.0)	55 (1.1)	544 (3.6)	16 (1.1)	513 (6.3)	9.5 (0.06)
Moscow City, Russian Fed.	17 (0.9)	586 (6.5)	60 (0.9)	577 (4.3)	23 (1.0)	564 (5.1)	9.0 (0.05)

This TIMSS context questionnaire scale was established in 2015 based on the combined response distribution of all countries that participated in TIMSS 2015. 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.

Exhibit 7.13: Students' Sense of School Belonging

Students' Reports

Country	High Sense of School Belonging		Some Sense of School Belonging		Little Sense of School Belonging		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Egypt	66 (1.3)	398 (5.6)	27 (0.9)	384 (6.1)	7 (0.7)	388 (9.2)	11.1 (0.06)
Jordan	62 (1.3)	458 (4.3)	30 (0.9)	456 (6.1)	9 (0.8)	435 (8.5)	10.9 (0.07)
Morocco	58 (1.2)	396 (3.5)	34 (1.0)	392 (2.8)	8 (0.6)	393 (5.5)	10.8 (0.05)
Romania	54 (1.3)	474 (4.8)	35 (1.0)	472 (5.2)	10 (0.8)	456 (6.0)	10.5 (0.06)
Turkey	54 (1.3)	518 (3.6)	37 (1.0)	512 (4.8)	9 (0.7)	515 (8.0)	10.5 (0.06)
Kazakhstan	51 (1.4)	480 (3.7)	44 (1.2)	476 (3.5)	5 (0.5)	488 (7.4)	10.6 (0.06)
South Africa (9)	48 (0.7)	370 (3.4)	43 (0.5)	371 (3.2)	9 (0.4)	380 (4.4)	10.3 (0.03)
Georgia	47 (1.4)	449 (4.7)	44 (1.2)	450 (4.2)	10 (0.7)	438 (7.8)	10.2 (0.06)
Lebanon	46 (1.4)	394 (4.9)	42 (1.1)	371 (6.4)	12 (0.8)	349 (8.7)	10.2 (0.06)
Saudi Arabia	45 (1.2)	436 (3.2)	43 (0.9)	434 (2.9)	12 (0.6)	421 (4.8)	10.2 (0.05)
Oman	44 (1.1)	473 (2.9)	44 (0.9)	452 (3.8)	11 (0.6)	433 (5.5)	10.1 (0.05)
Finland	43 (1.1)	558 (3.9)	48 (0.9)	538 (2.8)	9 (0.6)	498 (7.1)	10.2 (0.05)
Israel	42 (1.3)	517 (4.7)	43 (1.0)	519 (5.1)	14 (0.9)	499 (6.9)	10.0 (0.06)
Kuwait	42 (1.2)	459 (6.1)	41 (1.0)	447 (5.2)	17 (1.1)	415 (8.3)	9.9 (0.06)
United Arab Emirates	41 (0.8)	498 (3.6)	42 (0.7)	470 (2.2)	16 (0.4)	431 (3.9)	9.9 (0.04)
Norway (9)	41 (1.4)	508 (3.5)	47 (1.2)	495 (3.9)	12 (0.8)	459 (6.5)	10.0 (0.06)
Bahrain	38 (1.0)	501 (2.8)	46 (0.9)	487 (2.5)	16 (0.8)	453 (5.0)	9.8 (0.05)
Malaysia	37 (1.1)	465 (3.8)	58 (1.0)	460 (3.9)	5 (0.5)	436 (9.9)	10.0 (0.04)
Iran, Islamic Rep. of	36 (1.1)	456 (4.5)	50 (0.9)	444 (4.1)	14 (0.9)	453 (5.6)	9.9 (0.06)
New Zealand	33 (0.9)	521 (4.3)	53 (0.7)	497 (3.9)	14 (0.8)	463 (5.5)	9.7 (0.04)
Ireland	33 (1.2)	545 (3.2)	51 (1.1)	522 (3.1)	17 (1.0)	486 (5.0)	9.6 (0.05)
Portugal	32 (1.4)	525 (3.8)	53 (1.0)	518 (3.2)	15 (1.0)	507 (4.8)	9.6 (0.06)
Lithuania	31 (1.4)	541 (3.9)	57 (1.2)	534 (3.2)	12 (0.8)	519 (5.7)	9.7 (0.06)
United States	31 (0.9)	548 (5.1)	48 (0.8)	527 (4.6)	22 (0.9)	488 (4.9)	9.4 (0.04)
Qatar	31 (1.3)	489 (6.9)	48 (0.8)	481 (4.4)	22 (1.1)	445 (5.2)	9.4 (0.08)
Chile	30 (1.1)	469 (3.9)	57 (1.1)	463 (3.2)	13 (0.8)	449 (5.0)	9.6 (0.04)
Australia	30 (0.9)	557 (4.2)	50 (0.8)	529 (3.5)	20 (0.9)	487 (3.1)	9.4 (0.05)
Hungary	30 (1.2)	544 (4.8)	52 (1.0)	528 (2.9)	18 (1.1)	512 (4.2)	9.5 (0.06)
Singapore	28 (0.8)	626 (4.3)	58 (0.8)	606 (4.2)	14 (0.5)	577 (5.4)	9.5 (0.03)
Sweden	28 (1.2)	537 (4.5)	57 (0.9)	525 (3.5)	15 (0.9)	490 (6.0)	9.5 (0.05)
England	27 (1.3)	551 (5.4)	53 (1.0)	522 (4.8)	19 (1.0)	466 (7.4)	9.3 (0.06)
Italy	27 (1.3)	501 (4.0)	58 (0.9)	503 (2.5)	15 (0.8)	492 (5.2)	9.4 (0.05)
Russian Federation	25 (1.2)	545 (5.4)	59 (1.0)	543 (4.4)	16 (0.8)	540 (4.8)	9.4 (0.05)
Chinese Taipei	23 (1.0)	582 (4.1)	60 (0.9)	574 (1.9)	17 (0.8)	563 (3.9)	9.3 (0.04)
Cyprus	22 (0.9)	501 (3.8)	48 (1.0)	488 (2.7)	30 (1.2)	464 (3.0)	8.9 (0.05)
Korea, Rep. of	22 (0.9)	577 (3.5)	65 (0.9)	560 (2.1)	14 (0.7)	537 (4.7)	9.3 (0.04)
Japan	21 (1.1)	573 (2.9)	59 (0.8)	572 (2.5)	19 (0.9)	558 (3.3)	9.2 (0.05)
Hong Kong SAR	21 (0.9)	519 (7.5)	57 (1.0)	509 (4.9)	23 (1.1)	477 (8.0)	9.1 (0.05)
France	20 (0.9)	499 (4.4)	68 (0.8)	490 (2.7)	12 (0.7)	462 (5.6)	9.3 (0.04)
International Average	37 (0.2)	502 (0.7)	49 (0.2)	490 (0.6)	14 (0.1)	470 (1.0)	
Benchmarking Participants							
Western Cape, RSA (9)	46 (1.3)	437 (6.2)	44 (0.8)	442 (5.5)	10 (0.8)	447 (6.1)	10.2 (0.06)
Dubai, UAE	43 (1.1)	563 (3.2)	44 (1.1)	544 (3.1)	12 (0.5)	508 (5.0)	10.1 (0.04)
Gauteng, RSA (9)	41 (1.2)	418 (5.0)	47 (0.9)	424 (4.0)	13 (0.9)	437 (5.1)	10.0 (0.05)
Ontario, Canada	38 (1.5)	536 (4.1)	47 (1.3)	521 (3.5)	15 (1.1)	492 (4.5)	9.9 (0.07)
Abu Dhabi, UAE	33 (1.1)	454 (4.8)	46 (0.8)	416 (4.1)	21 (0.7)	390 (6.9)	9.5 (0.06)
Quebec, Canada	29 (1.4)	553 (3.7)	55 (1.1)	537 (3.8)	16 (1.1)	509 (6.0)	9.5 (0.06)
Moscow City, Russian Fed.	17 (0.9)	572 (4.9)	60 (0.9)	567 (3.1)	23 (1.0)	561 (3.5)	9.0 (0.05)

This TIMSS context questionnaire scale was established in 2015 based on the combined response distribution of all countries that participated in TIMSS 2015. 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.