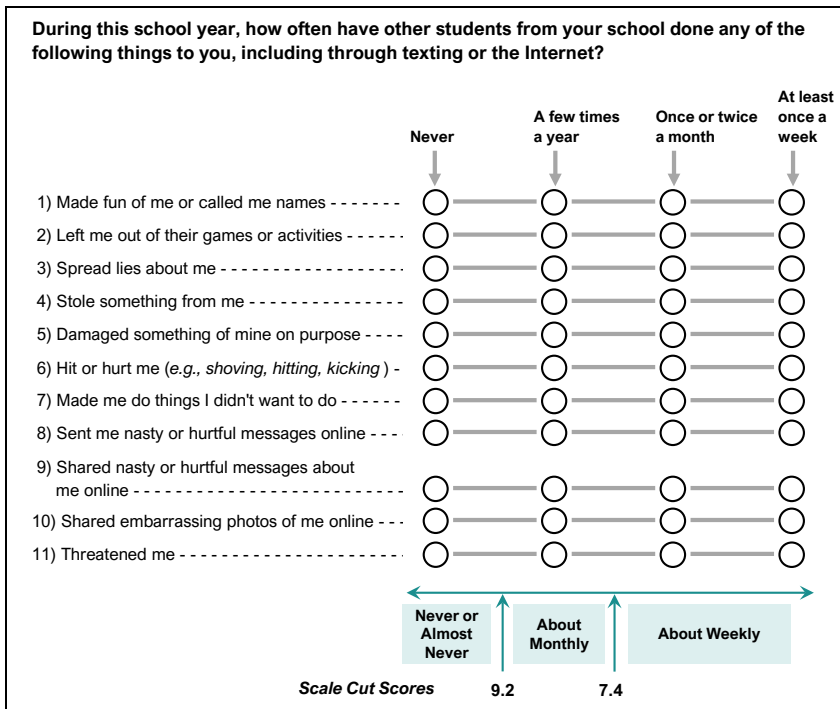


Exhibit 8.11: Student Bullying

Students' Reports

About the Scale

Students were scored according to their reports regarding eleven bullying behaviors on the *Student Bullying* scale. Cut scores divide the scale into three categories. Students bullied **Never or Almost Never** had a score at or above the cut score corresponding to reporting that they “never” experienced six of the eleven bullying behaviors and experienced the other five “a few times a year,” on average. Students bullied **About Weekly** had a score at or below the cut score corresponding to reporting that they experienced six of the eleven behaviors “once or twice a month” and the other five “a few times a year,” on average. All other students were bullied **About Monthly**.



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



Exhibit 8.12: Student Bullying

Students' Reports

Country	Never or Almost Never		About Monthly		About Weekly		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Albania	85 (0.9)	500 (3.2)	12 (0.8)	480 (5.7)	3 (0.4)	404 (15.7)	11.3 (0.05)
Armenia	84 (0.9)	506 (2.5)	11 (0.7)	494 (4.5)	5 (0.5)	463 (7.1)	11.3 (0.05)
Serbia	83 (1.2)	513 (3.3)	15 (0.9)	497 (5.6)	3 (0.4)	443 (12.6)	11.1 (0.06)
Kosovo	82 (1.0)	453 (2.8)	13 (0.8)	435 (4.8)	5 (0.5)	368 (9.2)	11.1 (0.06)
Montenegro	81 (0.7)	461 (1.8)	15 (0.6)	438 (4.0)	4 (0.3)	391 (7.4)	11.1 (0.04)
Japan	81 (0.9)	595 (1.8)	18 (0.9)	585 (3.3)	1 (0.2)	~ ~	10.9 (0.05)
Georgia	80 (1.1)	486 (3.8)	16 (0.9)	470 (6.4)	4 (0.4)	418 (11.0)	10.9 (0.06)
Finland	79 (1.0)	538 (2.2)	19 (0.9)	519 (4.0)	2 (0.2)	~ ~	10.7 (0.04)
Azerbaijan	78 (1.1)	528 (2.3)	18 (0.9)	511 (4.6)	4 (0.4)	465 (9.6)	10.9 (0.06)
Bosnia and Herzegovina	78 (0.8)	458 (2.3)	17 (0.7)	446 (3.7)	5 (0.4)	402 (5.2)	10.8 (0.05)
Korea, Rep. of	77 (1.1)	601 (2.3)	21 (1.0)	596 (3.9)	2 (0.3)	~ ~	10.6 (0.05)
Ireland	76 (0.9)	555 (2.6)	21 (0.7)	536 (3.8)	3 (0.4)	497 (8.5)	10.5 (0.05)
France	74 (1.0)	494 (3.2)	22 (0.9)	463 (4.0)	3 (0.4)	430 (10.1)	10.5 (0.05)
Norway (5)	73 (1.2)	548 (2.3)	24 (1.1)	536 (3.1)	3 (0.4)	503 (15.9)	10.3 (0.05)
Croatia	73 (1.3)	513 (2.3)	22 (1.2)	506 (3.8)	5 (0.4)	476 (8.2)	10.4 (0.05)
Poland	73 (0.9)	527 (2.8)	22 (0.8)	513 (3.4)	5 (0.4)	470 (8.4)	10.4 (0.04)
Lithuania	72 (1.3)	548 (3.0)	25 (1.2)	534 (4.2)	3 (0.3)	475 (11.9)	10.3 (0.06)
Kazakhstan	69 (1.3)	517 (2.7)	25 (1.1)	507 (3.7)	6 (0.4)	486 (5.1)	10.5 (0.07)
Northern Ireland	68 (1.4)	574 (3.2)	28 (1.3)	556 (3.7)	4 (0.4)	501 (9.4)	10.1 (0.06)
North Macedonia	68 (2.3)	489 (4.7)	23 (2.0)	464 (7.8)	9 (0.8)	403 (10.4)	10.3 (0.09)
Chinese Taipei	67 (1.2)	604 (1.8)	28 (1.0)	593 (3.3)	5 (0.4)	576 (7.5)	10.3 (0.05)
Austria	67 (1.3)	547 (2.3)	28 (1.1)	530 (2.9)	5 (0.5)	499 (5.0)	10.2 (0.06)
Sweden	66 (1.5)	530 (2.8)	30 (1.5)	511 (3.4)	4 (0.4)	474 (9.4)	10.0 (0.06)
Czech Republic	66 (1.1)	542 (2.5)	28 (0.9)	526 (3.6)	6 (0.6)	470 (7.0)	10.2 (0.06)
Netherlands	66 (1.3)	541 (2.2)	30 (1.1)	535 (2.9)	4 (0.5)	512 (8.7)	10.0 (0.05)
Slovak Republic	66 (1.3)	519 (3.2)	29 (1.1)	500 (5.5)	6 (0.5)	461 (10.8)	10.2 (0.06)
United States	64 (0.8)	548 (2.7)	29 (0.8)	527 (3.1)	7 (0.4)	477 (5.7)	10.0 (0.03)
Hungary	63 (1.2)	530 (2.8)	32 (1.2)	516 (3.6)	4 (0.5)	492 (7.7)	9.9 (0.04)
Cyprus	63 (1.2)	541 (2.8)	30 (1.0)	523 (3.7)	7 (0.5)	493 (6.2)	10.0 (0.05)
Germany	62 (1.1)	535 (2.4)	32 (1.0)	512 (3.4)	6 (0.6)	466 (6.9)	9.8 (0.04)
Hong Kong SAR	62 (1.2)	608 (3.1)	32 (1.0)	595 (4.7)	6 (0.5)	576 (7.8)	9.9 (0.05)
Spain	61 (1.1)	512 (2.2)	31 (0.9)	495 (3.3)	7 (0.6)	460 (5.2)	9.9 (0.05)
Iran, Islamic Rep. of	61 (1.3)	450 (4.8)	32 (1.2)	443 (4.4)	7 (0.4)	405 (7.3)	10.0 (0.06)
Portugal	61 (0.9)	532 (2.8)	32 (0.9)	523 (3.0)	7 (0.5)	480 (6.2)	9.8 (0.04)
Denmark	61 (1.4)	532 (2.3)	35 (1.3)	519 (2.5)	4 (0.4)	481 (7.7)	9.7 (0.05)
England	60 (1.3)	566 (4.4)	34 (1.1)	546 (4.1)	6 (0.6)	513 (8.5)	9.8 (0.05)
Bulgaria	60 (1.9)	528 (3.5)	31 (1.3)	511 (4.3)	9 (1.0)	463 (10.4)	9.8 (0.08)
Chile	60 (1.2)	454 (2.3)	29 (0.9)	437 (3.6)	11 (0.7)	392 (5.9)	9.8 (0.05)
Turkey (5)	60 (1.3)	540 (4.3)	32 (1.1)	511 (5.8)	9 (0.6)	451 (9.0)	9.9 (0.06)
Singapore	59 (0.9)	638 (3.6)	34 (0.7)	616 (4.0)	7 (0.4)	569 (9.1)	9.7 (0.03)
Italy	58 (1.3)	522 (2.6)	36 (1.1)	510 (2.9)	7 (0.6)	482 (6.9)	9.7 (0.05)
Malta	57 (0.8)	519 (1.7)	35 (0.8)	504 (2.6)	8 (0.5)	469 (5.2)	9.7 (0.03)
Russian Federation	56 (1.2)	575 (3.2)	37 (1.0)	563 (4.0)	8 (0.5)	538 (6.3)	9.6 (0.05)
Canada	55 (0.7)	520 (2.2)	38 (0.7)	505 (2.2)	8 (0.3)	477 (4.4)	9.6 (0.03)
Australia	54 (1.3)	525 (3.1)	39 (1.0)	513 (3.4)	7 (0.6)	470 (6.2)	9.5 (0.04)
Belgium (Flemish)	53 (1.4)	538 (2.1)	41 (1.2)	529 (2.5)	5 (0.4)	506 (6.5)	9.5 (0.04)
Morocco	53 (1.6)	397 (4.4)	37 (1.3)	379 (5.6)	10 (0.8)	342 (8.0)	9.6 (0.07)
Latvia	52 (1.1)	556 (2.7)	38 (0.9)	541 (2.8)	10 (0.8)	514 (6.0)	9.4 (0.05)
United Arab Emirates	51 (0.8)	501 (1.9)	34 (0.6)	476 (2.1)	15 (0.4)	434 (3.2)	9.5 (0.04)
Saudi Arabia	50 (1.2)	421 (4.3)	33 (1.0)	399 (3.8)	17 (0.7)	349 (5.8)	9.6 (0.06)
New Zealand	48 (1.1)	503 (2.8)	40 (0.9)	486 (3.1)	12 (0.5)	438 (4.4)	9.3 (0.04)
Oman	47 (1.4)	451 (4.9)	38 (1.2)	429 (3.9)	15 (0.8)	385 (5.4)	9.3 (0.06)
Bahrain	46 (1.1)	491 (3.0)	37 (0.9)	481 (3.4)	17 (0.7)	452 (4.4)	9.3 (0.05)
Kuwait	45 (1.3)	406 (6.0)	34 (0.9)	392 (5.2)	21 (1.1)	344 (7.5)	9.2 (0.07)
Pakistan	45 (3.4)	344 (13.0)	36 (2.8)	326 (13.2)	19 (2.1)	301 (13.0)	9.3 (0.15)
Qatar	42 (1.3)	473 (4.1)	37 (1.3)	456 (4.0)	21 (1.2)	397 (3.8)	9.0 (0.06)
South Africa (5)	26 (1.1)	423 (5.5)	45 (1.1)	376 (3.3)	29 (1.4)	333 (4.0)	8.4 (0.05)
Philippines	11 (1.0)	351 (10.3)	44 (1.3)	314 (6.6)	45 (1.8)	269 (6.4)	7.7 (0.06)
International Average	63 (0.2)	512 (0.5)	29 (0.1)	495 (0.6)	8 (0.1)	451 (1.1)	
Benchmarking Participants							
Madrid, Spain	65 (1.3)	523 (2.2)	30 (1.1)	514 (2.7)	5 (0.5)	483 (5.4)	10.1 (0.06)
Dubai, UAE	58 (1.2)	552 (1.8)	32 (0.9)	538 (3.0)	10 (0.5)	514 (4.6)	9.8 (0.05)
Ontario, Canada	55 (1.3)	523 (3.9)	38 (1.2)	506 (3.5)	7 (0.5)	475 (7.8)	9.6 (0.04)
Quebec, Canada	54 (1.3)	539 (3.0)	39 (1.0)	526 (3.0)	7 (0.7)	499 (6.2)	9.5 (0.05)
Moscow City, Russian Fed.	54 (1.2)	602 (2.3)	37 (0.9)	587 (2.8)	9 (0.6)	563 (5.0)	9.5 (0.04)
Abu Dhabi, UAE	44 (1.0)	462 (2.7)	37 (0.8)	439 (3.0)	19 (0.7)	399 (4.0)	9.1 (0.05)

This TIMSS context questionnaire scale was established in 2019 based on the combined response distribution of all countries that participated in TIMSS 2019. 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 8.13: Student Bullying

Students' Reports

Country	Never or Almost Never		About Monthly		About Weekly		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Albania	85 (0.9)	495 (3.4)	12 (0.8)	481 (6.5)	3 (0.4)	398 (15.7)	11.3 (0.05)
Armenia	84 (0.9)	476 (3.3)	11 (0.7)	459 (5.5)	5 (0.5)	420 (7.5)	11.3 (0.05)
Serbia	83 (1.2)	522 (3.5)	15 (0.9)	505 (5.7)	3 (0.4)	451 (13.1)	11.1 (0.06)
Kosovo	82 (1.0)	424 (3.4)	13 (0.8)	396 (6.4)	5 (0.5)	326 (9.9)	11.1 (0.06)
Montenegro	81 (0.7)	460 (2.4)	15 (0.6)	444 (5.1)	4 (0.3)	390 (8.6)	11.1 (0.04)
Japan	81 (0.9)	564 (1.7)	18 (0.9)	553 (3.4)	1 (0.2)	~ ~	10.9 (0.05)
Georgia	80 (1.1)	459 (4.0)	16 (0.9)	444 (6.7)	4 (0.4)	376 (10.5)	10.9 (0.06)
Finland	79 (1.0)	560 (2.4)	19 (0.9)	542 (4.3)	2 (0.2)	~ ~	10.7 (0.04)
Azerbaijan	78 (1.1)	441 (2.7)	18 (0.9)	424 (5.2)	4 (0.4)	364 (13.4)	10.9 (0.06)
Bosnia and Herzegovina	78 (0.8)	465 (2.7)	17 (0.7)	455 (5.1)	5 (0.4)	410 (8.5)	10.8 (0.05)
Korea, Rep. of	77 (1.1)	589 (2.3)	21 (1.0)	585 (3.5)	2 (0.3)	~ ~	10.6 (0.05)
Ireland	76 (0.9)	534 (3.3)	21 (0.7)	517 (4.0)	3 (0.4)	471 (9.7)	10.5 (0.05)
France	74 (1.0)	496 (3.1)	22 (0.9)	470 (4.2)	3 (0.4)	435 (9.3)	10.5 (0.05)
Norway (5)	73 (1.2)	544 (2.4)	24 (1.1)	534 (3.0)	3 (0.4)	498 (12.8)	10.3 (0.05)
Croatia	73 (1.3)	527 (2.5)	22 (1.2)	521 (4.1)	5 (0.4)	500 (7.5)	10.4 (0.05)
Poland	73 (0.9)	538 (2.7)	22 (0.8)	523 (3.2)	5 (0.4)	481 (8.2)	10.4 (0.04)
Lithuania	72 (1.3)	544 (2.8)	25 (1.2)	529 (4.1)	3 (0.3)	469 (11.7)	10.3 (0.06)
Kazakhstan	69 (1.3)	500 (3.4)	25 (1.1)	490 (4.3)	6 (0.4)	468 (6.6)	10.5 (0.07)
Northern Ireland	68 (1.4)	526 (2.4)	28 (1.3)	511 (3.7)	4 (0.4)	458 (8.2)	10.1 (0.06)
North Macedonia	68 (2.3)	445 (5.5)	23 (2.0)	412 (10.0)	9 (0.8)	355 (11.2)	10.3 (0.09)
Chinese Taipei	67 (1.2)	564 (1.9)	28 (1.0)	550 (2.9)	5 (0.4)	526 (7.2)	10.3 (0.05)
Austria	67 (1.3)	532 (2.8)	28 (1.1)	509 (4.3)	5 (0.5)	473 (7.2)	10.2 (0.06)
Sweden	66 (1.5)	545 (3.3)	30 (1.5)	529 (4.1)	4 (0.4)	485 (10.3)	10.0 (0.06)
Czech Republic	66 (1.1)	541 (2.6)	28 (0.9)	528 (3.3)	6 (0.6)	478 (6.2)	10.2 (0.06)
Netherlands	66 (1.3)	523 (2.8)	30 (1.1)	515 (4.0)	4 (0.5)	479 (10.4)	10.0 (0.05)
Slovak Republic	66 (1.3)	531 (3.0)	29 (1.1)	508 (6.3)	6 (0.5)	467 (12.3)	10.2 (0.06)
United States	64 (0.8)	551 (2.8)	29 (0.8)	531 (3.3)	7 (0.4)	481 (5.6)	10.0 (0.03)
Hungary	63 (1.2)	536 (2.9)	32 (1.2)	521 (3.5)	4 (0.5)	500 (9.0)	9.9 (0.04)
Cyprus	63 (1.2)	520 (3.1)	30 (1.0)	505 (3.5)	7 (0.5)	473 (7.0)	10.0 (0.05)
Germany	62 (1.1)	533 (2.2)	32 (1.0)	511 (3.5)	6 (0.6)	459 (8.5)	9.8 (0.04)
Hong Kong SAR	62 (1.2)	536 (3.3)	32 (1.0)	526 (4.2)	6 (0.5)	508 (9.2)	9.9 (0.05)
Spain	61 (1.1)	521 (1.9)	31 (0.9)	506 (3.0)	7 (0.6)	465 (5.5)	9.9 (0.05)
Iran, Islamic Rep. of	61 (1.3)	446 (5.1)	32 (1.2)	444 (4.6)	7 (0.4)	402 (8.1)	10.0 (0.06)
Portugal	61 (0.9)	510 (2.8)	32 (0.9)	502 (3.2)	7 (0.5)	459 (5.5)	9.8 (0.04)
Denmark	61 (1.4)	528 (2.6)	35 (1.3)	517 (3.4)	4 (0.4)	490 (6.9)	9.7 (0.05)
England	60 (1.3)	545 (3.9)	34 (1.1)	531 (3.5)	6 (0.6)	505 (7.3)	9.8 (0.05)
Bulgaria	60 (1.9)	535 (4.3)	31 (1.3)	520 (5.5)	9 (1.0)	457 (11.6)	9.8 (0.08)
Chile	60 (1.2)	482 (2.3)	29 (0.9)	466 (3.5)	11 (0.7)	419 (4.6)	9.8 (0.05)
Turkey (5)	60 (1.3)	541 (3.9)	32 (1.1)	520 (6.0)	9 (0.6)	461 (10.1)	9.9 (0.06)
Singapore	59 (0.9)	606 (3.2)	34 (0.7)	586 (3.6)	7 (0.4)	542 (9.1)	9.7 (0.03)
Italy	58 (1.3)	517 (3.1)	36 (1.1)	507 (3.3)	7 (0.6)	473 (6.8)	9.7 (0.05)
Malta	57 (0.8)	505 (1.6)	35 (0.8)	492 (2.7)	8 (0.5)	450 (6.2)	9.7 (0.03)
Russian Federation	56 (1.2)	574 (3.0)	37 (1.0)	563 (3.2)	8 (0.5)	542 (6.8)	9.6 (0.05)
Canada	55 (0.7)	533 (2.2)	38 (0.7)	517 (2.2)	8 (0.3)	491 (4.3)	9.6 (0.03)
Australia	54 (1.3)	541 (2.9)	39 (1.0)	530 (2.9)	7 (0.6)	490 (6.1)	9.5 (0.04)
Belgium (Flemish)	53 (1.4)	508 (2.2)	41 (1.2)	496 (2.8)	5 (0.4)	474 (6.3)	9.5 (0.04)
Morocco	53 (1.6)	389 (5.7)	37 (1.3)	369 (7.8)	10 (0.8)	327 (10.9)	9.6 (0.07)
Latvia	52 (1.1)	553 (2.5)	38 (0.9)	536 (2.4)	10 (0.8)	508 (6.2)	9.4 (0.05)
United Arab Emirates	51 (0.8)	497 (2.2)	34 (0.6)	467 (2.4)	15 (0.4)	413 (3.7)	9.5 (0.04)
Saudi Arabia	50 (1.2)	432 (4.6)	33 (1.0)	404 (4.6)	17 (0.7)	335 (7.3)	9.6 (0.06)
New Zealand	48 (1.1)	519 (2.4)	40 (0.9)	500 (2.9)	12 (0.5)	456 (4.5)	9.3 (0.04)
Oman	47 (1.4)	458 (4.8)	38 (1.2)	437 (4.5)	15 (0.8)	380 (6.1)	9.3 (0.06)
Bahrain	46 (1.1)	515 (3.3)	37 (0.9)	493 (3.8)	17 (0.7)	440 (5.5)	9.3 (0.05)
Kuwait	45 (1.3)	421 (7.5)	34 (0.9)	398 (7.1)	21 (1.1)	347 (8.0)	9.2 (0.07)
Pakistan	45 (3.4)	313 (13.5)	36 (2.8)	282 (16.0)	19 (2.1)	260 (17.0)	9.3 (0.15)
Qatar	42 (1.3)	479 (4.2)	37 (1.3)	458 (4.2)	21 (1.2)	383 (5.2)	9.0 (0.06)
South Africa (5)	26 (1.1)	392 (7.9)	45 (1.1)	328 (4.8)	29 (1.4)	268 (5.3)	8.4 (0.05)
Philippines	11 (1.0)	318 (13.0)	44 (1.3)	270 (8.1)	45 (1.8)	214 (7.0)	7.7 (0.06)
International Average	63 (0.2)	503 (0.5)	29 (0.1)	486 (0.7)	8 (0.1)	437 (1.2)	
Benchmarking Participants							
Madrid, Spain	65 (1.3)	528 (2.1)	30 (1.1)	518 (2.8)	5 (0.5)	485 (5.9)	10.1 (0.06)
Dubai, UAE	58 (1.2)	553 (1.9)	32 (0.9)	540 (3.1)	10 (0.5)	507 (4.8)	9.8 (0.05)
Ontario, Canada	55 (1.3)	535 (3.5)	38 (1.2)	518 (3.8)	7 (0.5)	490 (7.0)	9.6 (0.04)
Quebec, Canada	54 (1.3)	530 (3.1)	39 (1.0)	515 (2.8)	7 (0.7)	494 (4.9)	9.5 (0.05)
Moscow City, Russian Fed.	54 (1.2)	604 (2.5)	37 (0.9)	590 (2.5)	9 (0.6)	563 (4.9)	9.5 (0.04)
Abu Dhabi, UAE	44 (1.0)	446 (3.4)	37 (0.8)	417 (3.8)	19 (0.7)	365 (5.3)	9.1 (0.05)

This TIMSS context questionnaire scale was established in 2019 based on the combined response distribution of all countries that participated in TIMSS 2019. 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.