

Exhibit 5.8: Problems with School Conditions and Resources – Teachers' Reports

Reported by Teachers

Students were scored according to their teachers' responses concerning seven conditions and resources on the *Problems with School Conditions and Resources* scale. Students whose teachers reported **Hardly Any Problems** with their school conditions and resources had a score on the scale of at least 10.6, which corresponds to their teachers reporting "not a problem" for four of seven conditions and resources and "minor problem" for the other three, on average. Students whose teachers reported **Moderate to Severe Problems** had a score no higher than 8.2, which corresponds to their teachers reporting "moderate problem" for four of seven conditions and resources and "minor problem" for the other three, on average. All other students had teachers that reported **Minor Problems** with their school conditions and resources.

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015

Country	Hardly Any Problems		Minor Problems		Moderate to Severe Problems		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Czech Republic	63 (3.5)	529 (2.9)	34 (3.5)	528 (4.1)	3 (1.3)	513 (11.7)	11.1 (0.13)
Northern Ireland	60 (4.2)	572 (3.5)	30 (3.3)	570 (7.5)	10 (3.2)	579 (9.1)	10.8 (0.19)
Qatar	58 (3.5)	432 (5.8)	31 (3.2)	451 (6.6)	11 (1.9)	444 (10.3)	11.1 (0.14)
United Arab Emirates	57 (2.4)	463 (3.9)	32 (1.9)	446 (4.6)	10 (1.7)	411 (11.3)	10.9 (0.09)
Korea, Rep. of	57 (3.8)	612 (3.0)	36 (3.9)	606 (3.8)	8 (2.3)	592 (8.1)	10.8 (0.15)
England	55 (4.1)	544 (5.0)	37 (3.7)	553 (5.1)	9 (2.4)	538 (10.1)	10.8 (0.16)
Bulgaria	54 (4.8)	524 (7.8)	36 (4.4)	524 (7.3)	10 (2.4)	528 (7.3)	10.6 (0.18)
Australia	53 (3.8)	518 (5.5)	38 (3.4)	518 (4.6)	8 (1.9)	519 (6.5)	10.6 (0.12)
Singapore	53 (2.6)	615 (5.7)	42 (2.5)	620 (5.5)	5 (1.2)	640 (13.0)	10.8 (0.09)
Chile	52 (4.4)	474 (4.5)	37 (4.3)	448 (4.8)	12 (2.7)	443 (8.0)	10.5 (0.17)
Kazakhstan	51 (4.1)	546 (6.6)	39 (4.0)	545 (7.6)	10 (2.2)	532 (12.9)	10.5 (0.16)
Ireland	51 (4.3)	548 (3.7)	34 (4.1)	547 (3.5)	15 (3.3)	548 (6.8)	10.4 (0.17)
Slovak Republic	50 (3.6)	492 (3.8)	39 (3.2)	506 (4.0)	11 (2.1)	498 (9.6)	10.7 (0.13)
Slovenia	50 (3.6)	519 (3.0)	33 (3.3)	518 (2.9)	17 (3.0)	529 (3.5)	10.4 (0.14)
New Zealand	48 (3.2)	494 (4.1)	44 (3.2)	490 (3.8)	8 (1.7)	484 (11.2)	10.5 (0.11)
Bahrain	47 (2.3)	454 (2.3)	40 (1.8)	453 (2.6)	12 (1.3)	452 (5.9)	10.6 (0.11)
Hong Kong SAR	45 (4.4)	622 (4.4)	46 (4.4)	611 (4.7)	9 (2.3)	597 (6.5)	10.4 (0.13)
Russian Federation	43 (3.5)	567 (4.0)	45 (3.9)	560 (4.5)	13 (3.5)	567 (18.4)	10.2 (0.11)
Oman	41 (2.8)	423 (4.7)	48 (2.9)	431 (3.9)	11 (1.9)	410 (7.9)	10.3 (0.11)
United States	41 (2.6)	544 (3.6)	48 (2.7)	538 (4.1)	11 (1.7)	522 (7.8)	10.3 (0.10)
Canada	40 (2.9)	508 (4.1)	49 (3.0)	512 (2.6)	11 (1.7)	515 (6.7)	10.2 (0.09)
Kuwait	40 (3.8)	358 (7.8)	42 (3.0)	351 (6.4)	18 (2.6)	339 (10.8)	10.0 (0.16)
Netherlands	39 (4.2)	525 (2.4)	49 (4.0)	532 (2.6)	12 (2.2)	539 (3.4)	10.1 (0.14)
Spain	39 (3.1)	507 (3.3)	46 (3.6)	506 (3.4)	15 (3.0)	498 (6.7)	10.3 (0.14)
Cyprus	37 (3.5)	528 (3.2)	45 (3.4)	523 (4.7)	18 (2.5)	513 (5.6)	10.1 (0.16)
Belgium (Flemish)	35 (3.6)	546 (3.2)	49 (3.5)	545 (3.7)	16 (2.8)	548 (6.7)	10.0 (0.14)
Lithuania	35 (3.9)	535 (5.2)	48 (3.6)	536 (3.6)	16 (2.8)	537 (7.0)	10.0 (0.16)
Portugal	34 (3.4)	545 (3.9)	45 (3.5)	545 (2.8)	21 (2.8)	531 (6.2)	9.9 (0.14)
Poland	33 (3.9)	537 (3.6)	57 (4.3)	535 (2.9)	10 (2.4)	524 (7.3)	10.0 (0.14)
Chinese Taipei	32 (3.6)	602 (3.2)	58 (3.6)	593 (2.6)	11 (1.8)	597 (6.5)	10.1 (0.13)
Norway (5)	31 (3.8)	554 (4.4)	52 (4.2)	555 (3.1)	17 (3.4)	528 (5.0)	9.8 (0.13)
Saudi Arabia	30 (3.2)	399 (7.0)	42 (3.4)	386 (6.7)	28 (3.1)	363 (8.4)	9.3 (0.14)
Jordan	27 (3.6)	419 (8.8)	34 (3.9)	379 (6.5)	39 (3.3)	376 (5.2)	9.2 (0.12)
Georgia	27 (3.7)	477 (8.8)	48 (4.5)	460 (5.3)	25 (3.8)	457 (8.8)	9.6 (0.17)
Turkey	27 (2.9)	511 (8.6)	37 (2.9)	486 (5.9)	36 (2.6)	459 (5.5)	9.0 (0.12)
Germany	26 (2.9)	531 (3.6)	38 (3.6)	515 (3.5)	35 (3.4)	519 (4.2)	9.2 (0.13)
Croatia	26 (3.3)	496 (3.1)	51 (3.2)	503 (2.7)	23 (2.8)	508 (5.0)	9.5 (0.17)
Serbia	25 (3.5)	521 (10.4)	40 (3.6)	512 (5.3)	35 (3.6)	523 (4.1)	9.3 (0.15)
Finland	23 (2.8)	533 (3.2)	55 (3.4)	537 (2.8)	22 (2.9)	532 (4.1)	9.5 (0.11)
Sweden	23 (3.4)	522 (5.7)	53 (4.3)	522 (3.8)	24 (3.7)	509 (7.4)	9.3 (0.13)
Italy	23 (2.6)	517 (5.9)	43 (4.0)	504 (3.2)	34 (3.9)	504 (5.4)	9.3 (0.12)
Japan	22 (3.0)	592 (4.4)	60 (3.6)	592 (2.3)	18 (2.7)	596 (5.3)	9.6 (0.12)
Denmark	20 (3.4)	539 (5.0)	53 (4.1)	536 (4.2)	27 (3.4)	541 (4.9)	9.3 (0.13)
Hungary	20 (3.2)	511 (8.6)	47 (4.0)	528 (6.1)	33 (3.7)	538 (6.3)	9.1 (0.15)
South Africa (5)	18 (2.4)	447 (12.6)	34 (3.4)	384 (6.1)	48 (3.2)	343 (4.5)	8.6 (0.12)
France	18 (2.7)	502 (4.9)	55 (3.6)	484 (3.7)	28 (3.2)	487 (6.3)	9.2 (0.14)
Iran, Islamic Rep. of	17 (2.2)	466 (7.7)	58 (3.6)	432 (4.8)	25 (3.2)	408 (7.6)	9.1 (0.10)
Morocco	14 (2.3)	428 (8.8)	30 (2.9)	372 (5.7)	56 (3.3)	366 (5.5)	8.2 (0.15)
Indonesia	12 (2.6)	429 (10.2)	27 (3.2)	406 (7.4)	61 (3.3)	387 (5.3)	8.0 (0.15)
International Avg.	37 (0.5)	512 (0.8)	43 (0.5)	505 (0.7)	20 (0.4)	499 (1.1)	

This TIMSS 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.

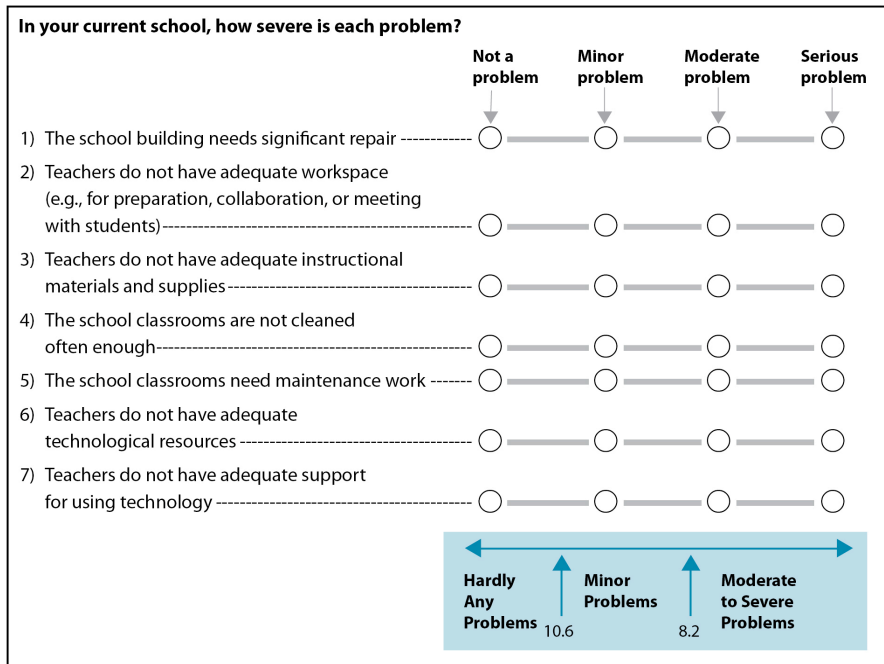
() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

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

An "r" indicates data are available for at least 70% but less than 85% of the students. An "x" indicates data are available for less than 50% of students.

Exhibit 5.8: Problems with School Conditions and Resources – Teachers' Reports (Continued)

Country	Hardly Any Problems		Minor Problems		Moderate to Severe Problems		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Benchmarking Participants							
Dubai, UAE	69 (1.5)	521 (2.5)	30 (1.6)	488 (4.0)	1 (0.5)	~ ~	11.5 (0.07)
Abu Dhabi, UAE	50 (5.0)	415 (10.1)	35 (4.5)	433 (10.5)	15 (3.2)	393 (17.7)	10.6 (0.20)
Florida, US	42 (5.7)	554 (9.1)	40 (5.3)	540 (8.2)	19 (5.3)	548 (12.7)	10.1 (0.26)
Norway (4)	40 (3.9)	497 (3.0)	49 (3.9)	494 (3.6)	11 (2.5)	490 (6.9)	10.1 (0.12)
Ontario, Canada	36 (3.7)	518 (4.0)	52 (4.0)	512 (3.0)	12 (2.4)	508 (6.3)	10.1 (0.12)
Quebec, Canada	33 (4.6)	538 (5.9)	53 (5.6)	532 (5.2)	14 (4.1)	547 (9.5)	9.9 (0.17)
Buenos Aires, Argentina	x x	x x	x x	x x	x x	x x	x x



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