

Exhibit 5.9: 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 10.9, 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 8.5, 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.

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	
Qatar	67 (3.0)	449 (4.8)	25 (3.0)	473 (8.0)	8 (0.5)	463 (9.7)	11.6 (0.13)
United Arab Emirates	r 57 (2.4)	489 (3.8)	33 (2.3)	458 (7.5)	10 (1.9)	463 (9.6)	11.1 (0.10)
Singapore	53 (2.6)	607 (4.7)	41 (2.8)	587 (6.5)	5 (1.2)	569 (15.2)	11.0 (0.09)
Australia	50 (2.5)	524 (3.2)	40 (3.0)	508 (5.7)	10 (2.0)	503 (8.0)	10.8 (0.10)
Lebanon	50 (4.6)	412 (10.7)	36 (3.9)	394 (7.8)	14 (3.1)	358 (13.3)	10.6 (0.17)
England	r 47 (3.4)	545 (5.1)	40 (2.9)	531 (6.7)	13 (2.6)	534 (15.8)	10.6 (0.14)
Chile	r 45 (3.9)	470 (5.7)	41 (3.9)	446 (6.2)	15 (3.1)	442 (10.1)	10.4 (0.16)
Slovenia	44 (2.9)	554 (2.7)	44 (2.4)	550 (2.8)	11 (1.5)	545 (6.6)	10.7 (0.12)
Kuwait	43 (4.1)	424 (9.1)	33 (4.0)	394 (9.7)	24 (3.7)	403 (12.2)	10.3 (0.20)
Canada	42 (3.2)	535 (3.0)	48 (3.3)	523 (3.6)	10 (1.9)	518 (10.9)	10.6 (0.11)
Bahrain	42 (3.0)	477 (4.3)	44 (3.2)	459 (4.3)	14 (2.3)	451 (7.8)	10.5 (0.11)
Oman	42 (3.8)	460 (3.9)	43 (3.4)	455 (5.6)	15 (2.3)	442 (9.6)	10.5 (0.15)
Korea, Rep. of	41 (3.8)	557 (2.5)	47 (3.9)	554 (3.5)	11 (2.6)	555 (8.1)	10.5 (0.15)
Kazakhstan	40 (2.9)	540 (5.7)	40 (2.9)	534 (6.4)	20 (2.6)	519 (12.5)	10.3 (0.13)
United States	r 40 (2.7)	543 (4.0)	46 (2.9)	528 (4.6)	14 (2.0)	514 (7.9)	10.4 (0.11)
Malta	39 (0.5)	493 (2.1)	46 (0.5)	477 (1.9)	15 (0.3)	459 (3.1)	10.4 (0.02)
Chinese Taipei	39 (3.5)	579 (3.9)	49 (4.0)	562 (3.4)	12 (2.6)	566 (5.5)	10.3 (0.12)
Hong Kong SAR	38 (4.8)	552 (6.5)	49 (5.3)	537 (6.3)	13 (3.1)	549 (9.7)	10.3 (0.13)
Ireland	38 (3.2)	537 (4.5)	47 (3.5)	527 (4.5)	16 (2.4)	530 (6.3)	10.3 (0.13)
New Zealand	37 (3.4)	529 (4.5)	47 (3.1)	507 (6.0)	16 (3.2)	507 (8.2)	10.1 (0.14)
Norway (9)	36 (3.1)	510 (4.5)	50 (3.7)	511 (3.9)	14 (2.7)	507 (6.1)	10.2 (0.11)
Russian Federation	35 (2.6)	551 (4.6)	48 (2.3)	543 (5.2)	16 (2.0)	533 (7.6)	10.1 (0.11)
Lithuania	33 (3.1)	519 (4.5)	52 (2.7)	517 (3.1)	15 (1.8)	524 (6.3)	10.2 (0.13)
Israel	28 (3.2)	498 (9.6)	46 (3.4)	521 (6.1)	26 (2.8)	496 (8.0)	9.8 (0.14)
Hungary	26 (2.1)	518 (5.9)	47 (2.5)	527 (4.4)	26 (2.6)	530 (5.6)	9.7 (0.10)
Jordan	25 (3.0)	455 (8.4)	39 (3.9)	423 (5.3)	36 (4.0)	407 (5.3)	9.3 (0.15)
Thailand	25 (3.4)	472 (9.8)	50 (3.9)	458 (6.1)	26 (3.2)	437 (8.4)	9.7 (0.13)
Japan	24 (3.7)	573 (4.4)	62 (3.9)	572 (2.2)	14 (2.6)	564 (6.0)	9.9 (0.13)
Sweden	23 (3.7)	521 (8.7)	50 (3.9)	528 (4.2)	26 (3.4)	514 (6.7)	9.6 (0.15)
Egypt	22 (2.7)	398 (8.7)	40 (3.7)	374 (7.3)	38 (3.6)	351 (7.3)	9.1 (0.15)
Saudi Arabia	22 (4.1)	424 (8.8)	48 (4.8)	394 (7.6)	31 (4.4)	380 (7.6)	9.3 (0.21)
Georgia	21 (2.5)	454 (5.0)	45 (2.5)	442 (3.7)	34 (2.9)	439 (5.3)	9.4 (0.12)
Iran, Islamic Rep. of	21 (2.6)	481 (12.1)	52 (3.2)	461 (4.7)	27 (3.1)	428 (5.2)	9.5 (0.11)
Italy	16 (3.0)	490 (8.3)	52 (4.2)	506 (3.6)	32 (3.5)	489 (5.8)	9.4 (0.12)
Turkey	16 (2.6)	522 (11.2)	39 (3.5)	497 (6.7)	45 (3.7)	480 (5.1)	8.9 (0.14)
South Africa (9)	15 (2.6)	452 (13.9)	29 (3.5)	364 (10.8)	56 (3.6)	329 (6.0)	8.5 (0.17)
Malaysia	13 (2.7)	465 (13.4)	42 (4.1)	483 (7.2)	45 (4.0)	455 (8.2)	8.9 (0.12)
Morocco	12 (1.4)	420 (8.0)	43 (2.5)	394 (3.6)	44 (2.6)	386 (2.8)	8.9 (0.08)
Botswana (9)	2 (0.7)	~ ~	15 (3.4)	421 (6.9)	82 (3.3)	387 (3.4)	7.4 (0.11)
International Avg.	34 (0.5)	500 (1.2)	43 (0.5)	486 (0.9)	23 (0.5)	475 (1.3)	

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.

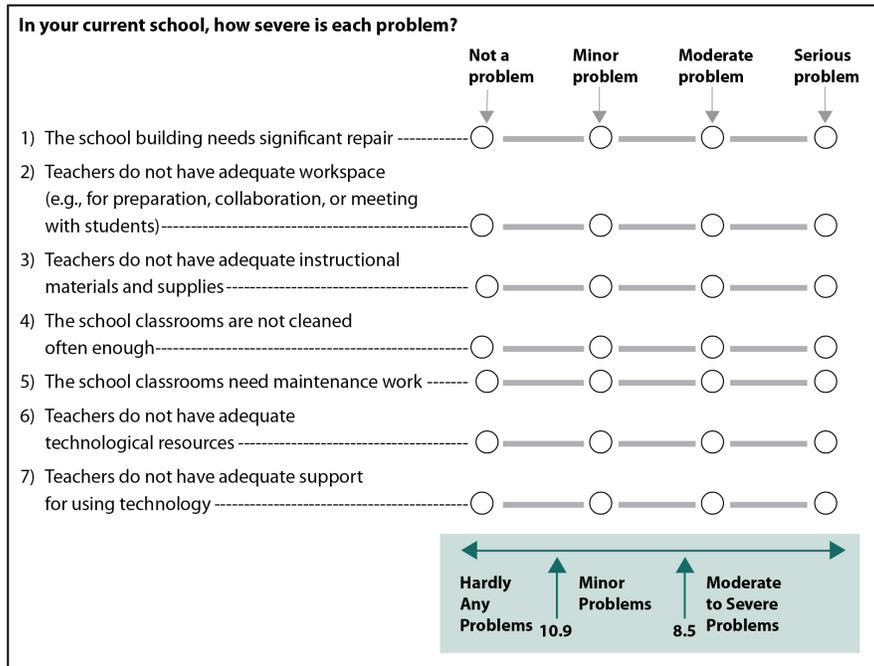
A tilde (~) indicates insufficient data to report achievement.

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

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

Exhibit 5.9: 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	r 71 (1.9)	537 (3.3)	25 (1.8)	487 (5.8)	4 (1.4)	492 (27.0)	11.7 (0.06)
Abu Dhabi, UAE	47 (5.0)	451 (8.5)	39 (4.9)	446 (15.0)	13 (3.3)	465 (14.6)	10.7 (0.20)
Ontario, Canada	r 44 (4.3)	530 (3.6)	46 (4.1)	523 (4.5)	10 (2.7)	523 (8.9)	10.6 (0.15)
Quebec, Canada	38 (4.0)	541 (5.9)	53 (3.9)	524 (7.2)	9 (1.4)	510 (30.2)	10.5 (0.15)
Florida, US	s 33 (6.9)	532 (13.8)	48 (6.5)	521 (10.5)	20 (5.5)	493 (14.1)	10.0 (0.26)
Norway (8)	29 (3.6)	493 (4.4)	55 (3.8)	490 (3.1)	16 (3.1)	489 (6.1)	10.0 (0.14)
Buenos Aires, Argentina	x x	x x	x x	x x	x x	x x	x x



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