

Exhibit 9.8: Weekly Time Students Spend on Assigned Mathematics Homework

Reported by Students

Country	3 Hours or More		More than 45 Minutes but Less than 3 Hours		45 Minutes or Less	
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement
Russian Federation	43 (1.3)	532 (4.7)	43 (1.1)	543 (4.7)	14 (0.9)	543 (7.4)
Kazakhstan	41 (1.2)	536 (6.3)	40 (0.9)	531 (5.9)	19 (1.0)	509 (7.7)
South Africa (9)	34 (1.1)	382 (5.0)	38 (0.8)	389 (5.3)	28 (0.9)	348 (5.0)
Georgia	28 (1.3)	470 (5.5)	39 (1.1)	470 (4.0)	32 (1.2)	435 (4.5)
Italy	23 (1.0)	488 (3.6)	54 (1.0)	502 (2.8)	23 (1.1)	486 (4.4)
Thailand	23 (1.2)	454 (5.1)	49 (1.0)	439 (5.0)	28 (1.4)	402 (5.3)
Singapore	22 (0.8)	633 (3.1)	55 (0.9)	631 (3.0)	23 (0.9)	586 (5.7)
Botswana (9)	22 (0.9)	397 (3.3)	39 (0.7)	410 (2.4)	39 (1.1)	376 (2.7)
Slovenia	21 (1.2)	505 (4.0)	44 (1.1)	518 (2.6)	35 (1.5)	524 (2.9)
Hong Kong SAR	21 (1.4)	596 (4.7)	45 (1.6)	604 (4.6)	34 (1.8)	582 (7.0)
Israel	20 (1.2)	549 (4.1)	38 (0.9)	526 (3.8)	42 (1.4)	484 (5.6)
Canada	19 (1.0)	529 (3.1)	42 (1.1)	534 (2.4)	39 (1.4)	524 (2.7)
Lithuania	19 (1.1)	501 (5.3)	45 (1.2)	512 (3.6)	36 (1.4)	517 (3.5)
Ireland	19 (1.0)	531 (4.2)	49 (1.0)	533 (2.6)	32 (1.2)	507 (4.5)
Malta	18 (0.6)	513 (2.8)	44 (0.8)	516 (1.8)	38 (0.7)	472 (2.2)
United States	18 (1.0)	547 (5.0)	36 (0.9)	530 (3.2)	46 (1.5)	502 (3.2)
Malaysia	17 (0.7)	467 (3.7)	51 (1.0)	478 (3.4)	31 (1.0)	452 (5.2)
Chinese Taipei	15 (1.1)	608 (6.0)	44 (1.0)	613 (2.7)	41 (1.4)	582 (3.4)
Lebanon	14 (1.0)	436 (5.4)	32 (1.3)	456 (4.8)	54 (1.5)	442 (4.0)
Iran, Islamic Rep. of	13 (0.6)	448 (7.0)	46 (0.9)	452 (4.8)	42 (1.1)	418 (4.8)
Turkey	12 (1.0)	453 (8.1)	42 (1.4)	470 (5.9)	46 (1.8)	454 (5.1)
Morocco	11 (0.5)	381 (4.0)	29 (0.7)	397 (3.0)	60 (0.8)	385 (2.3)
Hungary	11 (0.7)	513 (5.5)	38 (1.1)	523 (4.6)	51 (1.5)	510 (4.7)
Qatar	10 (0.6)	451 (6.3)	32 (0.9)	463 (4.1)	58 (0.8)	424 (3.3)
Egypt	10 (0.5)	380 (6.2)	24 (0.8)	406 (4.7)	66 (1.0)	397 (4.3)
United Arab Emirates	10 (0.5)	463 (4.9)	31 (0.8)	487 (3.2)	59 (1.0)	457 (2.3)
Australia	9 (0.8)	530 (5.6)	35 (1.2)	527 (3.4)	56 (1.6)	491 (3.7)
Norway (9)	9 (1.0)	492 (4.2)	50 (1.3)	514 (2.7)	41 (1.5)	515 (3.0)
Jordan	9 (0.5)	357 (5.6)	30 (0.8)	394 (3.4)	62 (0.8)	391 (3.5)
Bahrain	8 (0.6)	440 (7.3)	22 (0.8)	456 (3.9)	70 (1.0)	458 (1.7)
Saudi Arabia	7 (0.5)	335 (8.8)	17 (0.9)	374 (8.6)	76 (1.1)	372 (4.5)
Oman	6 (0.4)	380 (7.9)	17 (0.6)	405 (4.5)	78 (0.7)	408 (2.5)
Kuwait	6 (0.8)	375 (12.7)	18 (0.9)	404 (9.3)	76 (1.2)	392 (4.4)
Chile	4 (0.5)	425 (6.1)	28 (1.4)	432 (4.2)	67 (1.6)	428 (3.5)
New Zealand	4 (0.4)	500 (8.8)	28 (1.3)	517 (3.9)	68 (1.5)	485 (3.3)
Japan	3 (0.5)	588 (15.1)	25 (1.4)	583 (3.8)	72 (1.6)	592 (2.5)
Korea, Rep. of	3 (0.3)	604 (11.3)	16 (0.9)	600 (4.3)	81 (1.0)	607 (2.8)
Sweden	2 (0.3)	~ ~	19 (1.2)	486 (4.7)	80 (1.4)	508 (2.7)
England	1 (0.2)	~ ~	26 (1.1)	539 (5.0)	73 (1.2)	514 (4.3)
International Avg.	15 (0.1)	481 (1.1)	36 (0.2)	491 (0.7)	49 (0.2)	474 (0.7)

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

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent. A tilde (~) indicates insufficient data to report achievement.

Exhibit 9.8: Weekly Time Students Spend on Assigned Mathematics Homework (Continued)

Country	3 Hours or More		More than 45 Minutes but Less than 3 Hours		45 Minutes or Less	
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement
Benchmarking Participants						
Quebec, Canada	27 (2.1)	543 (4.3)	45 (1.3)	549 (3.5)	29 (1.8)	546 (4.4)
Florida, US	17 (1.9)	531 (8.5)	38 (1.6)	510 (5.8)	45 (2.7)	472 (7.7)
Ontario, Canada	16 (1.2)	519 (4.6)	42 (1.6)	530 (3.0)	42 (2.0)	520 (3.5)
Buenos Aires, Argentina	16 (1.3)	403 (7.4)	39 (1.4)	408 (4.9)	46 (2.0)	387 (6.1)
Dubai, UAE	11 (0.7)	507 (7.9)	38 (0.7)	528 (3.1)	51 (0.8)	503 (2.4)
Norway (8)	9 (0.9)	472 (4.7)	47 (1.3)	489 (2.3)	44 (1.8)	490 (2.7)
Abu Dhabi, UAE	9 (0.8)	439 (11.9)	28 (2.0)	466 (8.8)	63 (2.4)	435 (4.4)

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

<p>A. How often does your teacher give you homework in mathematics?</p> <ol style="list-style-type: none"> 1) Every day 2) 3 or 4 times a week 3) 1 or 2 times a week 4) Less than once a week 5) Never 	<p>B. When your teacher gives you homework in mathematics, about how many minutes do you usually spend on your homework?</p> <ol style="list-style-type: none"> 1) My teacher never gives me homework 2) 1-15 minutes 3) 16-30 minutes 4) 31-60 minutes 5) 61-90 minutes 6) More than 90 minutes
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The weekly time spent on mathematics homework was calculated by multiplying how often students were given homework weekly by the minutes they spent on that homework.

The values for Part A were: Every day = 5; 3 or 4 times a week = 3.5; 1 or 2 times a week = 1.5; Less than once a week = 0.5; and Never = 0.

The values for Part B were: My teacher never gives me homework = 0; 1-15 minutes = 8; 16-30 minutes = 23; 31-60 minutes = 45; 61-90 minutes = 75; and More than 90 minutes = 105.