

Exhibit 10.7: Students Report Arriving at School Feeling Tired or Hungry

Students' Reports

Country	Students Feel Tired						Students Feel Hungry					
	Never		Sometimes		Every Day or Almost Every Day		Never		Sometimes		Every Day or Almost Every Day	
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement
Australia	4 (0.2)	523 (9.4)	47 (0.9)	526 (4.6)	49 (0.9)	510 (3.5)	28 (0.8)	540 (5.8)	45 (0.6)	521 (4.0)	27 (0.8)	493 (3.6)
Bahrain	8 (0.7)	489 (6.0)	39 (1.0)	493 (2.6)	53 (0.8)	472 (1.7)	21 (0.7)	497 (3.6)	36 (0.8)	485 (2.6)	43 (0.9)	472 (2.6)
Chile	6 (0.5)	434 (7.4)	46 (1.1)	442 (3.2)	48 (1.1)	442 (3.2)	14 (0.7)	459 (5.1)	34 (1.0)	443 (3.4)	53 (1.0)	437 (2.7)
Chinese Taipei	4 (0.3)	596 (10.2)	50 (1.0)	616 (3.3)	46 (1.0)	610 (3.1)	8 (0.4)	607 (6.2)	49 (0.9)	616 (3.0)	44 (1.0)	611 (3.6)
Cyprus	8 (0.6)	507 (7.5)	42 (0.9)	505 (2.2)	50 (1.0)	498 (2.5)	37 (1.0)	516 (3.1)	38 (1.0)	499 (2.8)	25 (0.9)	487 (3.3)
Egypt	15 (0.9)	424 (7.2)	58 (1.0)	420 (5.3)	27 (1.0)	403 (5.9)	20 (0.9)	427 (7.0)	41 (1.1)	418 (5.3)	39 (1.2)	415 (5.4)
England	4 (0.4)	510 (14.0)	39 (1.1)	525 (5.7)	57 (1.2)	513 (5.7)	30 (1.3)	533 (6.7)	45 (1.1)	521 (5.1)	26 (1.0)	497 (6.4)
Finland	2 (0.2)	~ ~	52 (1.2)	518 (2.7)	46 (1.2)	500 (3.1)	19 (0.7)	534 (3.7)	50 (0.8)	511 (2.8)	31 (0.8)	493 (3.2)
France	4 (0.4)	479 (7.2)	41 (0.9)	488 (2.7)	54 (1.0)	480 (2.9)	18 (0.7)	499 (4.0)	33 (0.9)	486 (3.5)	49 (1.1)	476 (2.6)
Georgia	11 (0.9)	471 (7.4)	47 (1.2)	459 (4.5)	42 (1.4)	463 (5.3)	30 (1.4)	469 (5.2)	44 (1.4)	464 (5.3)	26 (1.4)	457 (4.9)
Hong Kong SAR	5 (0.5)	577 (9.1)	45 (1.1)	585 (4.2)	49 (1.1)	575 (4.6)	14 (1.1)	600 (8.3)	46 (1.3)	584 (4.5)	40 (1.0)	569 (4.7)
Hungary	2 (0.2)	~ ~	33 (1.1)	513 (4.4)	65 (1.1)	518 (3.0)	28 (1.0)	535 (4.8)	43 (0.8)	516 (3.6)	29 (1.1)	502 (4.0)
Iran, Islamic Rep. of	21 (1.0)	445 (5.6)	60 (1.1)	450 (3.8)	19 (0.8)	439 (5.5)	42 (0.9)	458 (4.3)	42 (0.9)	446 (3.8)	17 (0.6)	429 (5.2)
Ireland	3 (0.3)	528 (8.8)	41 (1.0)	529 (3.3)	56 (1.0)	522 (2.7)	35 (1.0)	542 (3.5)	43 (0.9)	524 (3.0)	22 (0.9)	507 (3.8)
Israel	8 (0.4)	519 (9.3)	42 (1.1)	520 (5.3)	51 (1.1)	522 (4.4)	28 (0.9)	530 (5.9)	45 (0.9)	526 (4.8)	27 (1.0)	507 (4.7)
Italy	3 (0.3)	505 (7.9)	43 (1.2)	502 (3.4)	54 (1.3)	494 (3.0)	23 (1.0)	514 (4.0)	34 (0.9)	500 (3.3)	43 (1.1)	488 (3.0)
Japan	11 (0.6)	600 (4.6)	47 (0.9)	601 (3.4)	41 (1.2)	585 (3.3)	34 (1.1)	608 (3.1)	43 (0.9)	592 (3.3)	24 (0.7)	579 (3.7)
Jordan	14 (0.6)	439 (5.2)	51 (1.0)	423 (3.8)	35 (1.0)	416 (5.7)	23 (0.9)	443 (4.5)	39 (1.0)	419 (4.7)	38 (1.2)	419 (4.8)
Kazakhstan	14 (0.8)	485 (5.7)	66 (0.9)	488 (3.2)	19 (0.8)	492 (4.5)	31 (0.9)	488 (4.0)	53 (0.9)	488 (3.6)	17 (0.6)	490 (4.7)
Korea, Rep. of	5 (0.3)	626 (8.9)	35 (0.9)	619 (3.4)	60 (1.0)	599 (3.3)	12 (0.5)	623 (5.4)	38 (0.8)	611 (3.3)	51 (0.8)	602 (3.3)
Kuwait	10 (0.6)	412 (8.2)	51 (0.9)	408 (5.2)	38 (1.1)	398 (5.8)	26 (0.9)	420 (5.7)	43 (1.0)	408 (4.8)	30 (1.0)	392 (6.4)
Lebanon	13 (1.0)	420 (5.7)	52 (1.3)	429 (3.6)	35 (1.2)	437 (3.5)	25 (1.1)	435 (4.3)	38 (0.9)	431 (3.9)	37 (1.2)	429 (3.6)
Lithuania	9 (0.6)	515 (6.0)	53 (0.9)	517 (3.3)	38 (1.0)	529 (3.9)	46 (1.1)	524 (3.4)	40 (0.9)	522 (3.7)	14 (0.8)	517 (4.7)
Malaysia	8 (0.5)	452 (6.1)	55 (0.9)	459 (3.4)	37 (1.0)	467 (3.6)	9 (0.5)	460 (6.5)	45 (0.9)	460 (4.0)	47 (1.0)	463 (3.1)
Morocco	13 (0.6)	397 (4.7)	59 (0.9)	388 (2.5)	28 (0.9)	387 (3.2)	17 (0.6)	392 (3.9)	47 (0.7)	391 (2.7)	36 (1.0)	385 (2.8)
New Zealand	5 (0.4)	467 (10.0)	46 (1.1)	491 (4.1)	50 (1.2)	477 (3.4)	29 (0.7)	502 (3.7)	45 (0.8)	485 (3.4)	25 (0.9)	459 (5.2)
Norway (9)	4 (0.5)	492 (8.0)	39 (1.1)	510 (3.0)	57 (1.1)	501 (2.9)	31 (0.9)	517 (3.1)	45 (1.0)	505 (2.9)	24 (0.9)	487 (3.8)
Oman	12 (0.5)	424 (5.2)	55 (0.8)	416 (2.8)	33 (1.0)	404 (4.2)	23 (0.8)	433 (3.7)	45 (0.9)	415 (2.9)	32 (1.1)	400 (3.6)
Portugal	12 (0.6)	500 (5.4)	50 (1.1)	504 (3.3)	39 (1.2)	496 (4.1)	48 (1.2)	514 (3.4)	31 (0.9)	495 (3.8)	21 (1.1)	482 (5.2)
Qatar	7 (0.5)	445 (8.8)	41 (1.3)	452 (5.4)	52 (1.4)	438 (4.5)	20 (0.8)	475 (7.0)	38 (1.0)	451 (5.0)	42 (1.1)	427 (3.6)
Romania	4 (0.4)	475 (10.2)	47 (1.3)	477 (4.6)	49 (1.4)	484 (5.4)	14 (0.9)	502 (7.5)	33 (1.1)	487 (4.3)	53 (1.4)	473 (5.2)
Russian Federation	10 (0.7)	542 (7.3)	52 (1.1)	541 (5.5)	38 (1.2)	548 (3.8)	33 (1.1)	544 (4.9)	43 (0.9)	545 (5.1)	24 (0.9)	546 (5.0)
Saudi Arabia	14 (0.7)	400 (4.4)	53 (0.8)	397 (2.8)	32 (0.9)	390 (3.2)	30 (0.9)	403 (2.8)	43 (0.7)	396 (3.0)	28 (0.8)	394 (3.2)
Singapore	3 (0.3)	619 (9.5)	34 (0.8)	620 (4.6)	63 (0.8)	614 (4.2)	20 (0.7)	647 (4.1)	43 (0.8)	620 (4.3)	36 (0.8)	593 (4.7)
South Africa (9)	20 (0.6)	380 (3.1)	59 (0.7)	390 (2.2)	21 (0.5)	402 (3.4)	22 (0.4)	404 (3.3)	46 (0.5)	389 (2.3)	33 (0.7)	387 (2.6)
Sweden	2 (0.3)	~ ~	39 (1.1)	508 (3.3)	59 (1.2)	502 (2.7)	24 (1.0)	522 (4.1)	43 (1.0)	505 (3.0)	33 (1.0)	489 (3.5)
Turkey	6 (0.5)	468 (9.9)	56 (1.1)	497 (4.4)	37 (1.1)	502 (4.8)	11 (0.7)	484 (8.2)	42 (1.1)	494 (5.8)	46 (1.2)	507 (4.2)
United Arab Emirates	11 (0.4)	493 (4.6)	43 (0.6)	485 (2.2)	46 (0.5)	463 (2.0)	23 (0.6)	505 (2.8)	39 (0.5)	483 (2.3)	38 (0.6)	455 (2.3)
United States	3 (0.3)	503 (12.6)	34 (0.8)	526 (5.3)	62 (0.8)	514 (4.6)	26 (0.8)	538 (6.8)	41 (0.7)	524 (4.5)	33 (0.8)	495 (4.5)
International Average	8 (0.1)	488 (1.3)	47 (0.2)	493 (0.6)	45 (0.2)	487 (0.6)	25 (0.1)	504 (0.8)	42 (0.1)	492 (0.6)	33 (0.2)	480 (0.7)
Benchmarking Participants												
Ontario, Canada	3 (0.4)	542 (10.1)	41 (1.0)	536 (4.4)	56 (1.1)	526 (4.7)	31 (0.9)	545 (5.7)	45 (0.9)	531 (4.8)	24 (0.8)	515 (4.7)
Quebec, Canada	3 (0.4)	538 (11.2)	45 (1.3)	548 (3.9)	52 (1.4)	540 (4.4)	24 (1.2)	563 (4.5)	42 (1.0)	546 (4.0)	34 (1.1)	528 (4.2)
Moscow City, Russian Fed.	5 (0.4)	589 (9.3)	41 (1.2)	577 (4.7)	54 (1.2)	574 (4.2)	26 (1.0)	585 (6.2)	42 (0.9)	575 (4.5)	32 (1.1)	570 (4.2)
Gauteng, RSA (9)	15 (0.6)	406 (4.0)	58 (0.9)	419 (2.9)	27 (1.0)	438 (4.4)	21 (0.7)	441 (5.0)	42 (0.8)	421 (3.2)	37 (0.9)	413 (3.1)
Western Cape, RSA (9)	12 (0.6)	410 (4.0)	59 (0.9)	435 (4.3)	29 (1.0)	472 (6.2)	23 (0.9)	468 (6.7)	44 (0.8)	442 (4.4)	33 (1.1)	426 (4.3)
Abu Dhabi, UAE	9 (0.4)	446 (6.6)	40 (0.9)	450 (3.4)	52 (0.9)	432 (3.5)	20 (0.7)	470 (4.5)	38 (0.7)	450 (3.4)	43 (0.8)	421 (3.9)
Dubai, UAE	11 (0.9)	558 (6.0)	45 (1.1)	542 (2.6)	44 (0.9)	526 (2.7)	27 (1.0)	564 (3.4)	39 (0.9)	539 (3.0)	34 (1.2)	512 (3.0)

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

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TIMSS & PIRLS
 International Study Center
 Lynch School of Education
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Exhibit 10.8: Students Report Arriving at School Feeling Tired or Hungry

Students' Reports

Country	Students Feel Tired						Students Feel Hungry					
	Never		Sometimes		Every Day or Almost Every Day		Never		Sometimes		Every Day or Almost Every Day	
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement
Australia	4 (0.2)	526 (9.3)	47 (0.9)	536 (3.8)	49 (0.9)	523 (3.1)	28 (0.8)	553 (5.1)	45 (0.6)	532 (3.2)	27 (0.8)	502 (3.4)
Bahrain	8 (0.7)	502 (7.2)	39 (1.0)	501 (2.6)	53 (0.8)	476 (2.7)	21 (0.7)	510 (3.4)	36 (0.8)	498 (2.8)	43 (0.9)	470 (2.8)
Chile	6 (0.5)	455 (8.5)	46 (1.1)	466 (3.2)	48 (1.1)	463 (3.8)	14 (0.7)	483 (4.9)	34 (1.0)	467 (3.7)	53 (1.0)	458 (2.9)
Chinese Taipei	4 (0.3)	551 (9.2)	50 (1.0)	576 (2.4)	46 (1.0)	575 (2.2)	8 (0.4)	571 (5.3)	49 (0.9)	577 (2.4)	44 (1.0)	573 (2.5)
Cyprus	8 (0.6)	492 (7.6)	42 (0.9)	488 (2.6)	50 (1.0)	480 (2.7)	37 (1.0)	501 (3.2)	38 (1.0)	482 (3.3)	25 (0.9)	466 (3.3)
Egypt	15 (0.9)	410 (8.0)	58 (1.0)	399 (5.3)	27 (1.0)	373 (6.5)	20 (0.9)	412 (7.1)	41 (1.1)	397 (5.3)	39 (1.2)	389 (5.6)
England	4 (0.4)	505 (15.5)	39 (1.1)	527 (5.3)	57 (1.2)	515 (5.4)	30 (1.3)	536 (6.4)	45 (1.1)	520 (5.0)	26 (1.1)	501 (5.9)
Finland	2 (0.2)	~ ~	52 (1.2)	552 (3.2)	46 (1.2)	534 (3.6)	19 (0.7)	571 (4.5)	50 (0.8)	546 (3.6)	31 (0.8)	525 (4.1)
France	4 (0.4)	482 (8.3)	41 (0.9)	494 (3.4)	54 (1.0)	485 (2.9)	18 (0.7)	509 (4.6)	33 (0.9)	489 (3.7)	49 (1.1)	483 (2.9)
Georgia	11 (0.9)	450 (6.7)	47 (1.2)	450 (4.3)	42 (1.4)	444 (4.7)	30 (1.4)	456 (4.7)	44 (1.4)	446 (4.5)	26 (1.4)	447 (5.9)
Hong Kong SAR	5 (0.5)	501 (9.7)	45 (1.1)	510 (5.5)	49 (1.1)	500 (5.6)	14 (1.1)	534 (10.4)	46 (1.3)	506 (5.4)	40 (1.0)	493 (5.5)
Hungary	2 (0.2)	~ ~	33 (1.1)	528 (4.0)	65 (1.1)	530 (2.6)	28 (1.0)	550 (4.2)	43 (0.8)	529 (3.1)	29 (1.1)	515 (4.0)
Iran, Islamic Rep. of	21 (1.0)	446 (5.4)	60 (1.1)	453 (3.8)	19 (0.8)	443 (5.2)	42 (0.9)	460 (4.1)	42 (0.9)	450 (3.7)	17 (0.6)	432 (5.0)
Ireland	3 (0.3)	522 (10.1)	41 (1.0)	526 (3.5)	56 (1.0)	523 (3.1)	35 (1.0)	544 (3.7)	43 (0.9)	521 (3.4)	22 (0.9)	504 (4.2)
Israel	8 (0.4)	516 (7.9)	42 (1.1)	517 (5.0)	51 (1.1)	515 (4.4)	28 (0.9)	524 (5.7)	45 (0.9)	520 (4.6)	27 (1.0)	504 (5.0)
Italy	3 (0.3)	504 (8.2)	43 (1.2)	503 (3.2)	54 (1.3)	499 (2.9)	23 (1.0)	521 (3.7)	34 (0.9)	501 (3.5)	43 (1.1)	491 (3.0)
Japan	11 (0.6)	580 (4.1)	47 (0.9)	574 (2.5)	41 (1.2)	561 (2.7)	34 (1.1)	585 (2.6)	43 (0.9)	569 (2.7)	24 (0.7)	551 (3.0)
Jordan	14 (0.6)	476 (5.4)	51 (1.0)	457 (4.6)	35 (1.0)	444 (6.0)	23 (0.9)	477 (5.1)	39 (1.0)	453 (5.2)	38 (1.2)	452 (4.7)
Kazakhstan	14 (0.8)	473 (5.7)	66 (0.9)	478 (3.1)	19 (0.8)	486 (5.0)	31 (0.9)	479 (3.7)	53 (0.9)	477 (3.4)	17 (0.6)	485 (5.3)
Korea, Rep. of	5 (0.3)	575 (8.5)	35 (0.9)	569 (3.2)	60 (1.0)	555 (2.6)	12 (0.5)	579 (5.0)	38 (0.8)	565 (2.8)	51 (0.8)	555 (2.7)
Kuwait	10 (0.6)	449 (10.2)	51 (0.9)	453 (5.6)	38 (1.1)	438 (6.1)	26 (0.9)	466 (6.9)	43 (1.0)	451 (5.3)	30 (1.0)	432 (7.2)
Lebanon	13 (1.0)	356 (9.0)	52 (1.3)	377 (5.2)	35 (1.2)	389 (5.9)	25 (1.1)	380 (6.3)	38 (0.9)	380 (6.4)	37 (1.2)	380 (5.0)
Lithuania	9 (0.6)	528 (5.2)	53 (0.9)	532 (3.3)	38 (1.0)	540 (4.0)	46 (1.1)	539 (3.4)	40 (0.9)	534 (3.7)	14 (0.8)	529 (4.7)
Malaysia	8 (0.5)	453 (6.3)	55 (0.9)	461 (3.7)	37 (1.0)	463 (4.0)	9 (0.5)	452 (7.5)	45 (0.9)	463 (4.1)	47 (1.0)	462 (3.7)
Morocco	13 (0.6)	409 (6.0)	59 (0.9)	395 (2.9)	28 (0.9)	388 (3.4)	17 (0.6)	402 (4.7)	47 (0.7)	399 (3.0)	36 (1.0)	387 (3.1)
New Zealand	5 (0.4)	471 (9.3)	46 (1.1)	506 (4.1)	50 (1.2)	498 (3.6)	29 (0.7)	523 (3.5)	45 (0.8)	500 (3.6)	25 (0.9)	474 (5.0)
Norway (9)	4 (0.5)	457 (12.1)	39 (1.1)	502 (3.7)	57 (1.1)	495 (3.4)	31 (0.9)	509 (4.5)	45 (1.0)	497 (3.4)	24 (0.9)	480 (5.1)
Oman	12 (0.5)	471 (5.3)	55 (0.8)	463 (2.9)	33 (1.0)	450 (4.5)	23 (0.8)	480 (3.8)	45 (0.9)	464 (2.8)	32 (1.1)	446 (4.0)
Portugal	12 (0.6)	515 (4.9)	50 (1.1)	522 (2.9)	39 (1.2)	516 (3.9)	48 (1.2)	532 (2.9)	31 (0.9)	515 (3.7)	21 (1.1)	499 (4.7)
Qatar	7 (0.5)	476 (10.0)	41 (1.3)	485 (5.8)	52 (1.4)	468 (4.7)	20 (0.8)	506 (7.1)	38 (1.0)	481 (5.8)	42 (1.1)	461 (4.4)
Romania	4 (0.4)	475 (8.8)	47 (1.3)	470 (4.4)	49 (1.4)	473 (5.1)	14 (0.9)	491 (6.9)	33 (1.1)	476 (4.9)	53 (1.4)	465 (4.8)
Russian Federation	10 (0.7)	541 (6.2)	52 (1.1)	540 (5.2)	38 (1.2)	548 (3.7)	33 (1.1)	545 (4.5)	43 (0.9)	543 (4.7)	24 (0.9)	544 (5.0)
Saudi Arabia	14 (0.7)	438 (5.2)	53 (0.8)	434 (2.8)	32 (0.9)	429 (3.9)	30 (0.9)	444 (3.6)	43 (0.7)	433 (3.5)	28 (0.8)	433 (3.3)
Singapore	3 (0.3)	615 (9.1)	34 (0.8)	609 (4.4)	63 (0.8)	607 (4.1)	20 (0.7)	641 (3.5)	43 (0.8)	611 (4.2)	36 (0.8)	585 (4.7)
South Africa (9)	20 (0.6)	359 (3.8)	59 (0.7)	370 (3.3)	21 (0.5)	388 (4.5)	22 (0.4)	389 (4.0)	46 (0.5)	368 (3.4)	33 (0.7)	370 (3.2)
Sweden	2 (0.3)	~ ~	39 (1.1)	524 (4.4)	59 (1.2)	524 (3.3)	24 (1.0)	547 (5.3)	43 (1.0)	524 (3.9)	33 (1.0)	507 (3.7)
Turkey	6 (0.5)	476 (8.5)	56 (1.1)	518 (3.8)	37 (1.1)	522 (4.2)	11 (0.7)	506 (6.6)	42 (1.1)	513 (5.2)	46 (1.2)	526 (3.8)
United Arab Emirates	11 (0.4)	497 (5.3)	43 (0.6)	489 (2.8)	46 (0.5)	461 (2.3)	23 (0.6)	513 (3.4)	39 (0.5)	485 (2.6)	38 (0.6)	450 (2.8)
United States	3 (0.3)	499 (14.4)	34 (0.8)	528 (5.1)	62 (0.8)	524 (4.4)	26 (0.8)	542 (6.4)	41 (0.7)	530 (4.2)	33 (0.8)	506 (4.9)
International Average	8 (0.1)	485 (1.4)	47 (0.2)	494 (0.6)	45 (0.2)	488 (0.7)	25 (0.1)	507 (0.8)	42 (0.1)	493 (0.6)	33 (0.2)	480 (0.7)
Benchmarking Participants												
Ontario, Canada	3 (0.4)	529 (10.0)	41 (1.0)	525 (3.6)	56 (1.1)	520 (3.3)	31 (0.9)	539 (4.5)	45 (0.9)	520 (3.4)	24 (0.8)	508 (3.9)
Quebec, Canada	3 (0.4)	530 (10.9)	45 (1.3)	540 (3.7)	52 (1.4)	534 (4.4)	24 (1.2)	560 (4.7)	42 (1.0)	538 (4.2)	34 (1.1)	520 (4.0)
Moscow City, Russian Fed.	5 (0.4)	573 (7.7)	41 (1.2)	567 (3.7)	54 (1.2)	566 (2.9)	26 (1.0)	575 (4.3)	42 (0.9)	566 (3.3)	32 (1.1)	562 (3.2)
Gauteng, RSA (9)	15 (0.6)	405 (5.4)	58 (0.9)	419 (4.1)	27 (1.0)	445 (5.6)	21 (0.7)	449 (6.0)	42 (0.8)	420 (4.2)	37 (0.9)	414 (4.0)
Western Cape, RSA (9)	12 (0.6)	399 (4.8)	59 (0.9)	431 (5.0)	29 (1.0)	481 (7.1)	23 (0.9)	475 (7.7)	44 (0.8)	438 (5.5)	33 (1.1)	422 (5.1)
Abu Dhabi, UAE	9 (0.4)	435 (8.2)	40 (0.9)	439 (4.4)	52 (0.9)	415 (4.3)	20 (0.7)	467 (5.8)	38 (0.7)	440 (4.2)	43 (0.8)	399 (4.9)
Dubai, UAE	11 (0.9)	571 (6.3)	45 (1.1)	555 (3.0)	44 (0.9)	535 (2.7)	27 (1.0)	576 (3.5)	39 (0.9)	551 (3.2)	34 (1.2)	522 (3.7)

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

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