${\rm AMC~8/10~Mock}$

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MOCK AMC 8/10

1	Questions 1-25	3
2	Feedback	7
3	Integrity Statement	8

(A) 97

1 Questions 1-25

1. How many minutes is it from 4:30 PM- 6:17 PM?

to 80 percent. What did the student score?

(C) 137

2. A student was absent in a class of 15 students. The 14 students averaged 79 percent. When the last student took the test, the average was raised

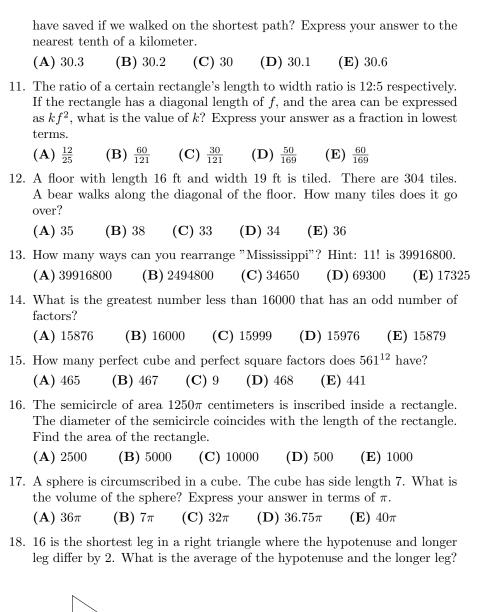
(D) 107

(E) 117

(B) 100

	(A) 94	(B) 100	(C) 96	(D) 89	(E) 93		
3.	A student measured a rhombus with diagonals 40 and 42. What is the perimeter of this rhombus?						
	(A) 112	(B) 68	(C) 80	(D) 116	(E) 120		
4.	How many ways can we seat 6 people on a circular table?						
	(A) 720	(B) 24	(C) 5040	(D) 54	(E) 120		
5.	graders tha	t take Algeb	ora 1. There	also 149 6	graders. There are 179 6 ith graders that take Ma /8 don't take Algebra 1? (E) 20		
6.	. Tess measured two interior angles of a triangle as 48 degrees and 76 degrees. What is the measure of the exterior angle of the last interior angle?						
	(A) 37	(B) 133	(C) 101	(D) 116	(E) 124		
7.							
	` '	(B) 212	(C) 210	(D) 21	,		
8.	his latest p	After bragging about it approval rating. Then er for police reform. Wh	he				
	(A) 43.2%	(B) 369	% (C) 4	0.32%	(D) 45% (E) 40%		
9.	ends, the st	es by 40%. When the sanal, having an x % incread 40? Express you're answ	ase				
	(A) 27	(B) 25	(C) 26	(D) 0	(E) 20		
10. Bob starts on a journey from his hometown to Mathsville. I kilometers west and 37 kilometers south. How many kilometer							

16cm



(A) 65 (B) 63 (C) 64 (D) 48 (E) 71

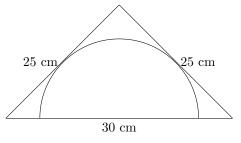
19. What is the least number with 36 factors?

(A) 1260 (B) 1800 (C) 1440 (D)1600 (E) 504

20. What is the difference between the smaller and larger angle formed by the hour hand and minute hand at 9:32?

(A) 72 (B) 84 (C) 94 (D) 90 (E) 172

21. An isosceles triangle has a base of 30 and a leg of 25. There is a semicircle inscribed in the isosceles triangle. What is the area inside the triangle but outside the circle? Express your answer in terms of π .



(A) $300-36\pi$ (B) $300-144\pi$ (C) $300-72\pi$ (D) $300-48\pi$ (E) $300-96\pi$

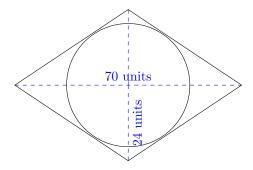
22. What 6 digit number has its digit reversed when multiplied by 4?

(A)398765 (B) 219978 (C) 812379 (D) 512490 (E) 543972

23. How many ordered quintuplets (a, b, c, d, e) are there such that the sum of the quadruplet is 29?

(A) 17296 (B) 9086 (C) 17890 (D) 20475 (E) 19069

24. There is a circle inscribed in a rhombus. If the lengths of the diagonals are 70 and 24, what is the length of the radius of the inscribed circle? Express your answer to the nearest hundredth.



(A) 11.47 **(B)** 11.35 **(C)** 12.68 **(D)** 13.48 **(E)** 11.28

25. What is the sum of the digits of the sum of the digits of all the numbers from 1-1000000?

(A) 10 (B) 100 (C)19 (D) 276 (E)69

2 Feedback

- 1. Do you think the test should be harder?
- 2. Should we make a different AMC next time?
- 3. Was an AMC 8/10 a good idea?

3 Integrity Statement

I <u>insert username here</u> agree that I didn't use the internet, collaborate with other people, and use any tools that are not allowed. I also agree that I did not go over the 40 minute time limit to finish this test.