

2000 AMC 8

For more practice and resources, visit ziml.areteem.org

The problems in the AMC-Series Contests are copyrighted by American Mathematics Competitions at Mathematical Association of America (www.maa.org).



Question 1 Not yet answered	Aunt Anna is 42 years old. Caitlin is 5 years younger than Brianna, and Brianna is half as old as Aunt Anna. How old is Caitlin?							
Points out of 1	(A) 15	(B) 16	(C) 17	(D) 21	(E) 37			
	Select one A B C D E	2:						



Question 3 Not vet answered	How many whole numbers lie in the interval between ${5\over 3}$ and $2\pi ?$								
Points out of 1	(A) 2	(B) 3	(C) 4	(D) 5	(E) infinitely many				
	Select one:								
	Ο Α								
	ОВ								
	○ C								
	D								
	○ E								

Question 4

Not yet answered

Points out of 1

In 1960 only 5% of the working adults in Carlin City worked at home. By 1970 the "at-home" work force had increased to 8%. In 1980 there were approximately 15% working at home, and in 1990 there were 30%. The graph that best illustrates this is:













Question 10	Ara and Shea were once the same height. Since then Shea has grown 20% while Ara has grown half as									
Not yet answered	many inches as Shea. Shea is now 60 inches tall. How tall, in inches, is Ara now?									
Points out of 1	(A) 48 (B) 51 (C) 52 (D) 54 (E) 55									
	Select one:									
	○ A									
	 B C D 									
										○ E
0										
Not yet answered	The number 64 has the property that it is divisible by its unit digit. How many whole numbers between 10 and 50 have this property?									
Points out of 1	(A) 15 (B) 16 (C) 17 (D) 18 (E) 20									
	Select one:									
	○ A									
	○ B									
	○ C									
	• D									
	○ E									
Question 12	A block wall 100 feet long and 7 feet high will be constructed using blocks that are 1 foot high and either									
Not yet answered	shown, and the wall must be even on the ends.									
Points out of 1										
	What is the smallest number of blocks needed to build this wall?									
	(A) 344 (B) 347 (C) 350 (D) 353 (E) 356									
	Select one:									
	○ B									
	• C									
	○ E									







- ОВ
- C
-) D
- E



(C) The quadrilaterals have the same area and the same perimeter.

- (D) The quadrilaterals have the same area, but the perimeter of I is more than the perimeter of II.
- (E) The quadrilaterals have the same area, but the perimeter of I is less than the perimeter of II.

Select one:

- A
- В
- C
- D
-) E



Select one:

A
B
C

D

○ E

Question 21

Not yet answered

Points out of 1

Keiko tosses one penny and Ephraim tosses two pennies. The probability that Ephraim gets the same number of heads that Keiko gets is



Question 22

Not yet answered

Points out of 1

A cube has edge length 2. Suppose that we glue a cube of edge length 1 on top of the big cube so that one of its faces rests entirely on the top face of the larger cube.



The percent increase in the surface area (sides, top, and bottom) from the original cube to the new solid formed is closest to



О Е

Question 23

Not yet answered

Points out of 1

There is a list of seven numbers. The average of the first four numbers is 5, and the average of the last four numbers is 8. If the average of all seven numbers is $6\frac{4}{7}$, then the number common to both sets of four numbers is

(A)
$$5\frac{3}{7}$$
 (B) 6 (C) $6\frac{4}{7}$ (D) 7 (E) $7\frac{3}{7}$
Select one:
A
B
C
D
E



