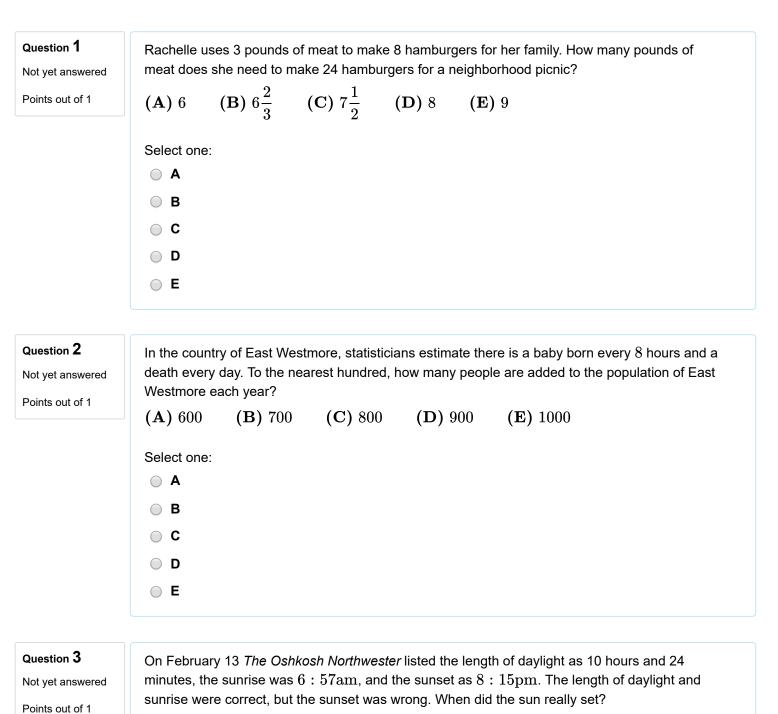


2012 AMC 8

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(A) 5:10pm
(B) 5:21pm
(C) 5:41pm
(D) 5:57pm
(E) 6:03pm

Select one:

ABC

D

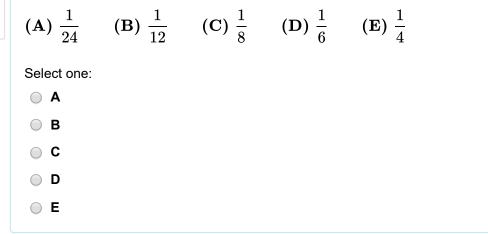
E

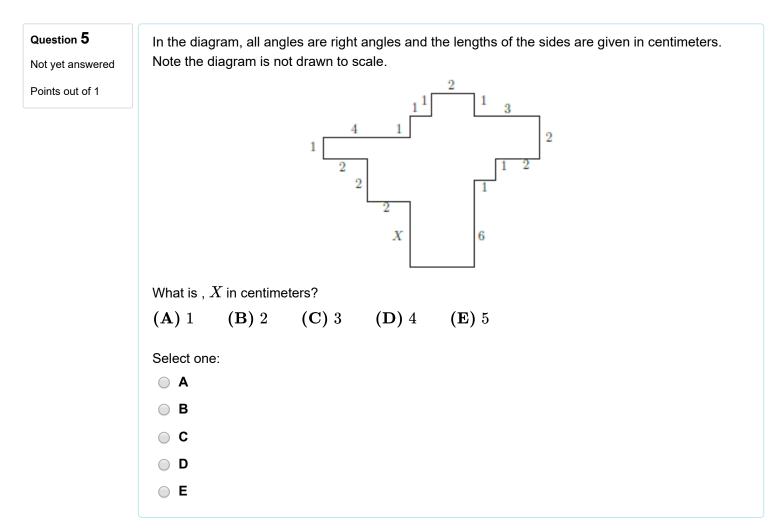


Not yet answered

Points out of 1

Peter's family ordered a 12-slice pizza for dinner. Peter ate one slice and shared another slice equally with his brother Paul. What fraction of the pizza did Peter eat?





Question 6 Not yet answered Points out of 1	-	raph. The p	hotograph me		orms a border two inches wide on all sides es high and 10 inches wide. What is the
	(A) 36	(B) 40	(C) 64	(D) 72	(E) 88
	Select one:				
	ОВ				
	○ C				
	D				
) E				
Question 7	Isabella must	take four 1	00-point tests	in her math cl	ass. Her goal is to achieve an average
Not yet answered	-				re 97 and 91. After seeing her score on the
Points out of 1	have made o			ch ner goal. vi	Vhat is the lowest possible score she could
	(A) 90	(B) 92	(C) 95	(D) 96	(E) 97
	Select one:				
	<u>о</u> В				
	○ C				
	0 D				

Question 8 Not yet answered	A shop advertises everything is "half price in today's sale." In addition, a coupon gives a 20% discount on sale prices. Using the coupon, the price today represents what percentage off the original price?						
Points out of 1	(A) 10	(B) 33	(C) 40	(D) 60	(E) 70		
	Select one:	:					
	Α (
	ОВ						
	○ C						
	D						
	OE						

Question 9 Not yet answered Points out of 1	The Fort Worth Zoo has a number of two-legged birds and a number of four-legged mammals. On one visit to the zoo, Margie counted 200 heads and 522 legs. How many of the animals that Margie counted were two-legged birds?						
	(A) 61	(B) 122	(C) 139	(D) 150	(E) 161		
	Select one:						
	Ο Α						
	ОВ						
	○ C						
	D						
) E						

Question 10	How many	y 4-digit num	bers greate	r than 1000 a	re there that use the four digit	s of 2012?	
Not yet answered	(A) 6	(B) 7	(C) 8	(D) 9	(E) 12		
Points out of 1							
	Select one	e:					
	Ο Α						
	ОВ						
	○ C						
	O D						
	○ E						

Question 11 Not yet answered	The mean, median, and unique mode of the positive integers 3, 4, 5, 6, 6, 7, and x are all equal. What is the value of x ?				
Points out of 1	(A) 5	(B) 6	(C) 7	(D) 11	(E) 12
	Select one A B	e:			
	○ C				
	D				
	OE				

Question 12	What is the units digit of 13^{2012} ?
Not yet answered	(A) 1 (B) 3 (C) 5 (D) 7 (E) 9
Points out of 1	Select one: A B C
	 C D E
Question 13 Not yet answered Points out of 1	Jamar bought some pencils costing more than a penny each at the school bookstore and paid $\$1.43$. Sharona bought some of the same pencils and paid $\$1.87$. How many more pencils did Sharona buy than Jamar?
	(A) 2 (B) 3 (C) 4 (D) 5 (E) 6
	Select one:
	○ A

Question 14In the BIG N, a middle school football conference, each team plays every other team exactly once. If a total of 21 conference games were played during the 2012 season, how many teams were members of the BIG N conference?							
	once. If a total of 21 conference games were played during the 2012 season, how many teams						
(A) 6 (B) 7 (C) 8 (D) 9 (E) 10							
Select one:							
○ A							
⊖В							
○ C							
○ E							

В

○ C

D

Ο Ε

Question 15 Not yet answered	The smallest num lies between wha	-	hat leaves a r	emainder of 2	when divided by 3, 4	, 5, or 6
Points out of 1	(A) 40 and 50	(B) 51 and 5	5 (C) 5	56 and 60	(D) 61 and 65	(\mathbf{E}) 66 and 9
	Select one:					
	○ A					
	ОВ					
	○ C					
	D					
	E					
Not yet answered					g could be one of the (\overline{x})	numbers?
Not yet answered					-	numbers?
Points out of 1	(A) 76531	(B) 86724 (C) 87431	(D) 9624	0 (E) 97403	
	Select one:					
	○ A					
	B					
	⊖ C					
	O D					
	⊖ E					
Question 17	A square with inte	aer side lenath is ci	it into 10 sau	ares all of wh	ich have integer side	length

Question 17 Not yet answered Points out of 1	A square with integer side length is cut into 10 squares, all of which have integer side length and at least 8 of which have area 1. What is the smallest possible value of the length of the side of the original square?						
	(A) 3	(B) 4	(C) 5	(D) 6	(E) 7		
	Select on	e:					
	Α (
	ОВ						
	○ C						
	D						
) E						

Question 18 Not yet answered	What is the smallest positive integer that is neither prime nor square and that has no prime factor less than 50?					
Points out of 1	(A) 3127 (B) 3133 (C) 3137 (D) 3139 (E) 3149					
	Select one: A B C D E					
Question 19 Not yet answered	In a jar of red, green, and blue marbles, all but 6 are red marbles, all but 8 are green, and all but 4 are blue. How many marbles are in the jar?					

(A) 6	(B) 8	(C) 9	(D) 10	(E) 12	
Select one	э:				
Ο Α					
ОВ					
○ C					
D					
○ E					

Points out of 1

Question 20 Not yet answered Points out of 1	What is the correct ordering of the three numbers $\frac{5}{19}$, $\frac{7}{21}$, and $\frac{9}{23}$, in increasing order? (A) $\frac{9}{23} < \frac{7}{21} < \frac{5}{19}$ (B) $\frac{5}{19} < \frac{7}{21} < \frac{9}{23}$ (C) $\frac{9}{23} < \frac{5}{19} < \frac{7}{21}$ (D) $\frac{5}{19} < \frac{9}{23} < \frac{7}{21}$ (E) $\frac{7}{21} < \frac{5}{19} < \frac{9}{23}$
	Select one:
	⊙ В
	● C
	○ E

Question 21 Not yet answered Points out of 1	Marla has a large white cube that has an edge of 10 feet. She also has enough green paint to cover 300 square feet. Marla uses all the paint to create a white square centered on each face, surrounded by a green border. What is the area of one of the white squares, in square feet?					
	(A) $5\sqrt{2}$ (B) 10 (C) $10\sqrt{2}$ (D) 50 (E) $50\sqrt{2}$ Select one: A B C D E					
Question 22 Not yet answered Points out of 1	Let R be a set of nine distinct integers. Six of the elements are 2, 3, 4, 6, 9, and 14. What is the number of possible values of the median of R ? (A) 4 (B) 5 (C) 6 (D) 7 (E) 8					

Select one:

\bigcirc	Α	
\bigcirc	в	
\bigcirc	С	
\bigcirc	D	
\bigcirc	Е	

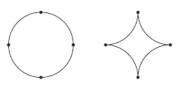
Question 23	An equilateral triangle and a regular hexagon have equal perimeters. If the area of the triangle is 4, what is the area of the hexagon?						
Points out of 1	(A) 4	(B) 5	(C) 6	(D) $4\sqrt{3}$	(E) $6\sqrt{3}$		
	Select one	e:					
	Α (
	ОВ						
	○ C						
	D						
	○ E						

Question 24

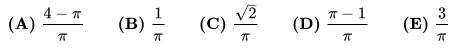
Not yet answered

Points out of 1

A circle of radius 2 is cut into four congruent arcs. The four arcs are joined to form the star figure shown.



What is the ratio of the area of the star figure to the area of the original circle?



Select one:

A
B
C
D

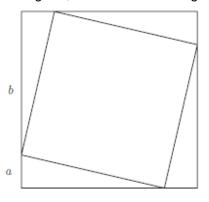
) E

Question 25

Not yet answered

Points out of 1

A square with area 4 is inscribed in a square with area 5, with one vertex of the smaller square on each side of the larger square. A vertex of the smaller square divides a side of the larger square into two segments, one of length a, and the other of length b.



What is the value of ab?

(A)
$$\frac{1}{5}$$
 (B) $\frac{2}{5}$ (C) $\frac{1}{2}$ (D) 1 (E) 4

Select one:

- Ο Α
- О В
- C
- O D
- Ο Ε