

1999 AMC 8

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Not yet answered

Points out of 1

(6?3)+4-(2-1)=5. To make this statement true, the question mark between the 6 and the 3 should be replaced by

$$(A) \div$$

$$(B) \rightarrow$$

$$C) + ($$

$$(B) \times (C) + (D) - (E)$$
 None of these

Select one:

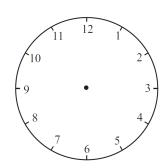
- A
- B
- C
- D
- E

Question 2

Not yet answered

Points out of 1

What is the degree measure of the smaller angle formed by the hands of a clock at 10 o'clock?



- (A) 30
- (B) 45
- (C) 60
- (E) 90

(D) 75

Select one:

- A
- B
- C
- D
- \circ E

Question 3

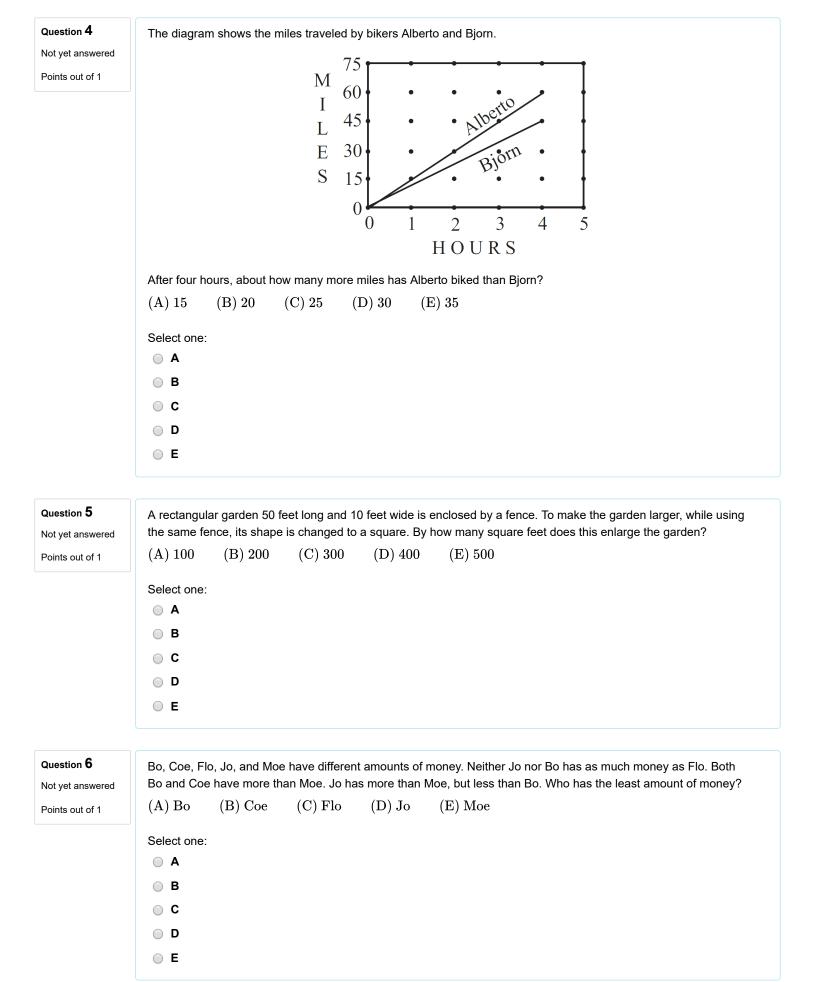
Not yet answered

Points out of 1

Which triplet of numbers has a sum NOT equal to 1?

- (A) (1/2, 1/3, 1/6) (B) (2, -2, 1) (C) (0.1, 0.3, 0.6) (D) (1.1, -2.1, 1.0) (E) (-3/2, -5/2, 5)

- A
- B
- C
- D
- E



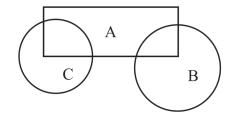
Question 7 Not yet answered Points out of 1	The third exit on a highway is located at milepost 40 and the tenth exit is at milepost 160. There is a service center on the highway located three-fourths of the way from the third exit to the tenth exit. At what milepost would you expect to find this service center?										
Points out of 1	(A) 90 Select one	(B) 100	(C) 110	(D) 120	0 (E) 130					
Question 8	Six square	s are colored,	front and back	к, (R = red,	B = blu	e, O = o	range, `	Y = yellow, (G = green, a	and W = white).	
Not yet answered	They are h	inged togethe	r as shown, th	en folded to	o form a	cube.					
Points out of 1				R	В						
					G	Y	О				
						W					
	The face opposite the white face is										
	(A) B	(B) G	(C) O (I	D) R	(E) Y						
	Select one	:									
	○ A										
	○ B										
	○ C										

DE

Not yet answered

Points out of 1

Three flower beds overlap as shown. Bed A has 500 plants, bed B has 450 plants, and bed C has 350 plants. Beds A and B share 50 plants, while beds A and C share 100.



The total number of plants is

- (A) 850
- (B) 1000
- (C) 1150
- (D) 1300
- (E) 1450

Select one:

- A
- B
- C
- D
- E

Question 10

Not yet answered

Points out of 1

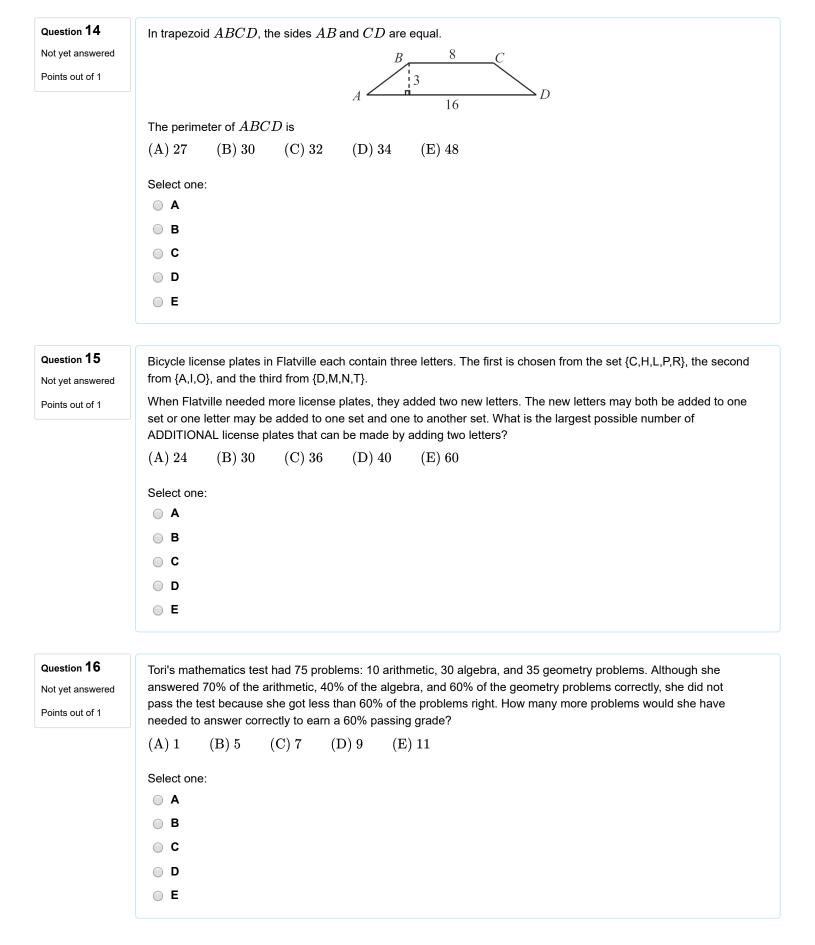
A complete cycle of a traffic light takes 60 seconds. During each cycle the light is green for 25 seconds, yellow for 5 seconds, and red for 30 seconds. At a randomly chosen time, what is the probability that the light will NOT be green?

- (A) $\frac{1}{4}$

- (B) $\frac{1}{3}$ (C) $\frac{5}{12}$ (D) $\frac{1}{2}$ (E) $\frac{7}{12}$

- A
- B
- C
- D
- \bigcirc E

Question 11	Each of the five numbers 1, 4, 7, 10, and 13 is placed in one of the five squares so that the sum of the three numbers in the horizontal row equals the sum of the three numbers in the vertical column.						
Not yet answered	ridingers in the horizontal row equals the sum of the three humbers in the vertical country.						
Points out of 1							
	<u> </u>						
	The largest possible value for the horizontal or vertical sum is						
	(A) 20 (B) 21 (C) 22 (D) 24 (E) 30						
	Select one:						
	○ A						
	○ B						
	○ c						
	□ D						
	○ E						
Question 12	The ratio of the number of games won to the number of games lost (no ties) by the Middle School Middles is $11/4$.						
Not yet answered	To the nearest whole percent, what percent of its games did the team lose?						
	(A) 24% (B) 27% (C) 36% (D) 45% (E) 73%						
Points out of 1							
	Select one:						
	○ A						
	○ B						
	○ c						
	○ D						
	○ E						
Question 13	The survey are of the 40 manufactor of a second sec						
	The average age of the 40 members of a computer science camp is 17 years. There are 20 girls, 15 boys, and 5 adults. If the average age of the girls is 15 and the average age of the boys is 16, what is the average age of the						
Not yet answered	adults. If the average age of the girls is 15 and the average age of the boys is 16, what is the average age of the adults?						
Points out of 1	(A) 26 (B) 27 (C) 28 (D) 29 (E) 30						
	Select one:						
	Select one:						
	Select one:						
	Select one: A B						
	Select one:						
	Select one: A B						
	Select one: A B C						



Not yet answered

Points out of 1

At Fat Papa Middle School the 108 students who take the Papa meet in the evening to talk about food and eat an average of two full size, double chocalate, creamy cream cakes apiece. Walter and Gretel are baking Bonnie's Smelliest Bar Cookies this year. Their recipe, which makes a pan of 15 cakes, lists this items: $1\frac{1}{2}$ cups flour, 2

eggs, 3 tablespoons butter, $\frac{3}{4}$ cups sugar, and 1 package of chocolate cakes. They will make only full recipes, not partial recipes.

Walter can buy eggs by the half-dozen. How many half-dozens should he buy to make enough cakes? (Some eggs and some cakes may be left over.)

- (A) 1
- (B) 2
- (C) 5
- (D) 7
- (E) 15

Select one:

- A
- B
- C
- D
- E

Question 18

Not yet answered

Points out of 1

At Central Middle School the 108 students who take the AMC8 meet in the evening to talk about problems and eat an average of two cookies apiece. Walter and Gretel are baking Bonnie's Best Bar Cookies this year. Their recipe, which makes a pan of 15 cookies, lists this items: $1\frac{1}{2}$ cups flour, 2 eggs, 3 tablespoons butter, $\frac{3}{4}$ cups sugar, and 1 package of chocolate drops. They will make only full recipes, not partial recipes.

They learn that a big concert is scheduled for the same night and attendance will be down 25%. How many recipes of cookies should they make for their smaller party?

- (A) 6
- (B) 8
- (C) 9
- (D) 10
- (E) 11

- A
- B
- C
- D
- E

Question	1	q
Question		-

Not yet answered

Points out of 1

At Central Middle School the 108 students who take the AMC 8 meet in the evening to talk about problems and eat an average of two cookies apiece. Walter and Gretel are baking Bonnie's Best Bar Cookeis this year. Their recipe, which makes a pan of 15 cookies, lists these items: $1\frac{1}{2}$ cups flour, 2 eggs, 3 tablespoons butter, $\frac{3}{4}$ cups sugar, and 1 package of chocolate drops They will only make full recipes, not partial recipes.

The drummer gets sick. The concert is cancelled. Walter and Gretel must make enough pans of cookies to supply 216 cookies. There are 8 tablespoons in a stick of butter. How many sticks of butter will be needed? (Some butter may be left over, of course.)

- (A) 5
- (B) 6
- (C)7
- (D) 8
- (E) 9

Select one:

- A
- B
- C
- D
- E

Question 20

Not yet answered

Points out of 1

Figure 1 is called a "stack map." The numbers tell how many cubes are stacked in each position. Fig. 2 shows these cubes, and Fig. 3 shows the view of the stacked cubes as seen from the front.



Figure 1

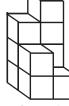


Figure 2

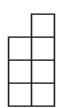


Figure 3

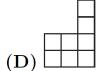


Figure 4

Which of the following is the front view for the stack map in Fig. 4?







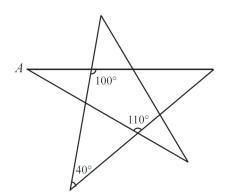


- A
- B
- C
- D
- E

Not yet answered

Points out of 1

The degree measure of angle \boldsymbol{A} is



- (A) 20
- (B) 30
- (C) 35
- (D) 40
- (E) 45

Select one:

- \bigcirc A
- B
- C
- D
- E

Question 22

Not yet answered

Points out of 1

In a far-off land three fish can be traded for two loaves of bread and a loaf of bread can be traded for four bags of rice. How many bags of rice is one fish worth?

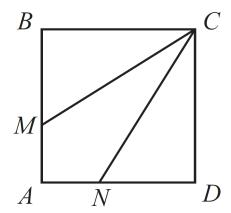
- (B) $\frac{1}{2}$ (C) $\frac{3}{4}$ (D) $2\frac{2}{3}$ (E) $3\frac{1}{3}$

- A
- B
- C
- D
- E

Not yet answered

Points out of 1

Square ABCD has sides of length 3. Segments CM and CN divide the square's area into three equal parts.



How long is segment CM?

- (A) $\sqrt{10}$
- (B) $\sqrt{12}$
- (C) $\sqrt{13}$
- (D) $\sqrt{14}$
- (E) $\sqrt{15}$

Select one:

- A
- B
- C
- D
- E

Question 24

Not yet answered

Points out of 1

When 1999^{2000} is divided by 5, the remainder is

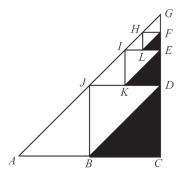
- (A) 4
- (B) 3
- (C) 2
- (D) 1
- (E) 0

- A
- B
- C
- D
- E

Not yet answered

Points out of 1

Points B, D, and J are midpoints of the sides of right triangle ACG. Points K, E, I are midpoints of the sides of triangle JDG, etc.



If the dividing and shading process is done 100 times (the first three are shown) and AC=CG=6, then the total area of the shaded triangles is nearest

- (A) 6
- (B) 7
- (C) 8
- (D) 9
- (E) 10

- A
- B
- C
- D
- E