



**PEARSON**

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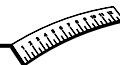












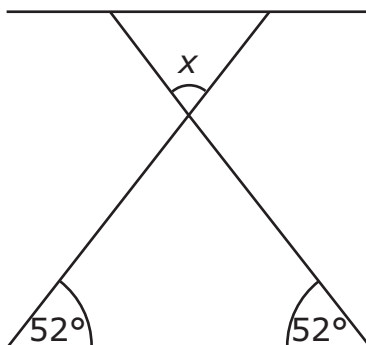
**13** Triangle  $XYZ$  is obtuse. Which list could represent the angle measures of triangle  $XYZ$ ?

528908\_1

- A  $20^\circ, 60^\circ, 100^\circ$
- B  $30^\circ, 60^\circ, 90^\circ$
- C  $50^\circ, 50^\circ, 80^\circ$
- D  $60^\circ, 60^\circ, 60^\circ$

**14** Curt drew this figure using two parallel lines.

536290\_3

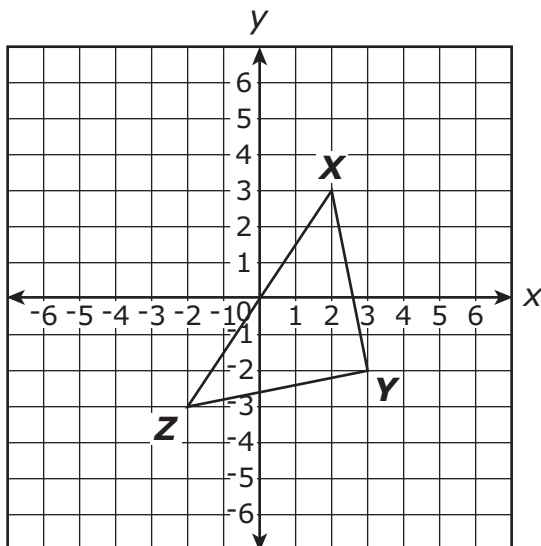


What is the measure of  $x$ ?

- A  $38^\circ$
- B  $52^\circ$
- C  $76^\circ$
- D  $128^\circ$



- 15** Triangle  $XYZ$  is to be translated 4 units to the right and 1 unit down to create triangle  $X'Y'Z'$ .



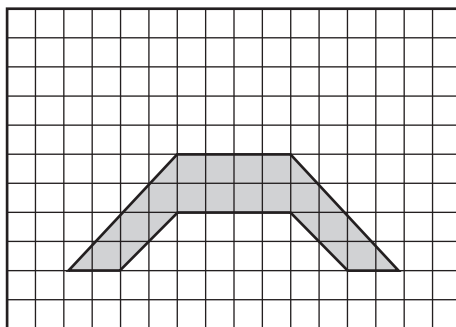
**What will be the coordinates of point  $X'$ ?**

- A** (6, 2)
- B** (-2, 4)
- C** (4, -2)
- D** (2, 6)



16

528998\_3



Key:  $\square = 1$  sq unit

What is the area of the shaded figure?

- A 10 sq units
- B 15 sq units
- C 20 sq units
- D 25 sq units

17

524548\_1

Diane is planning to carpet the floor of her rectangular room. The length of the room is 12 feet, and the width of the room is 9 feet. How many square yards (sq yd) of carpet will it take to cover Diane's floor?

- A 12 sq yd
- B 21 sq yd
- C 36 sq yd
- D 108 sq yd



**18** Oliver made a pizza that was the same size as the pizza pan he used. The area of the pizza pan was  $16\pi$  square inches. What will be the circumference, in inches, of his pizza?

619351\_2

- A  $4\pi$  inches
- B  $8\pi$  inches
- C  $16\pi$  inches
- D  $32\pi$  inches

**19**

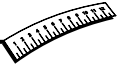
530451\_2



José designed a sign for his shop window using one rectangle and 2 identical semicircles with radius of 4 inches (in.). Which expression can be used to find the perimeter of the sign?

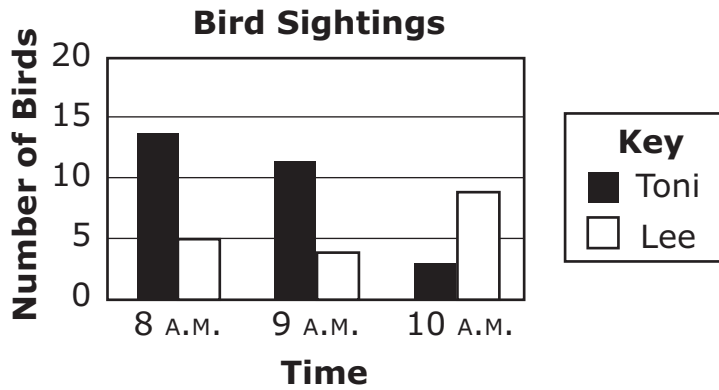
$$\text{circumference}_{\text{circle}} = \pi d$$

- A  $2(24) + 3.14(4)$
- B  $2(24) + 3.14(8)$
- C  $2(24) + 3.14(0.5 \cdot 4)$
- D  $2(24) + 3.14(0.5 \cdot 8)$



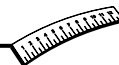
**20** Toni and Lee went bird watching. The double bar graph shows the number of birds each saw at different times.

620301\_3



**According to the graph, which statement is true?**

- A** For every hour, Toni saw more birds than Lee saw.
- B** For every hour, Lee saw more birds than Toni saw.
- C** Lee saw more than half the total number of birds that Toni saw.
- D** Toni saw more than twice the total number of birds that Lee saw.



- 21** The teacher randomly selected one of these students to make a presentation.

528182\_3

Students' Names

Ray  
Brad  
Sarah  
Atiene  
Anish  
Rachel  
Brandon  
Rohan

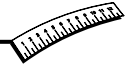
**What is the probability that the student's name began with an A or B?**

- A** 25%
- B** 38%
- C** 50%
- D** 75%

- 22** There are 3 red, 4 blue, 1 green, and 2 pink gumballs in a bowl. What is the probability of picking a blue gumball and then a pink gumball without replacement?

620737\_4

- A**  $\frac{3}{5}$
- B**  $\frac{6}{19}$
- C**  $\frac{2}{25}$
- D**  $\frac{4}{45}$



23

529907\_3

 $9, 7, 5, 6, 7, x$ 

Which value of  $x$  would make the mean and the median of the data set the same?

- A 4
- B 7
- C 8
- D 9



