

PEARSON

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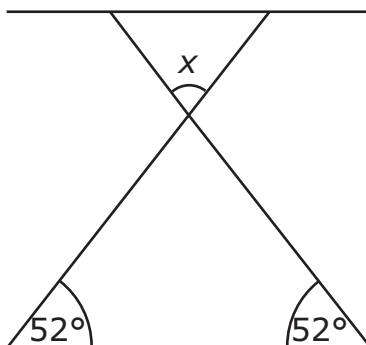
13 Triangle XYZ is obtuse. Which list could represent the angle measures of triangle XYZ ?

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

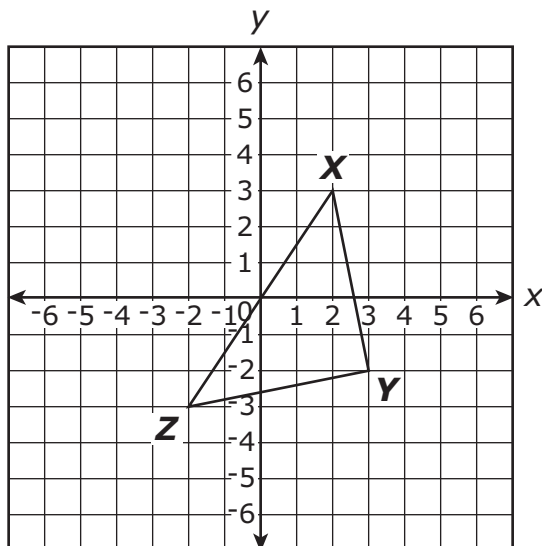


What is the measure of x ?

- A 38°
- B 52°
- C 76°
- D 128°

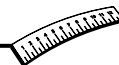


- 15** Triangle XYZ is to be translated 4 units to the right and 1 unit down to create triangle $X'Y'Z'$.



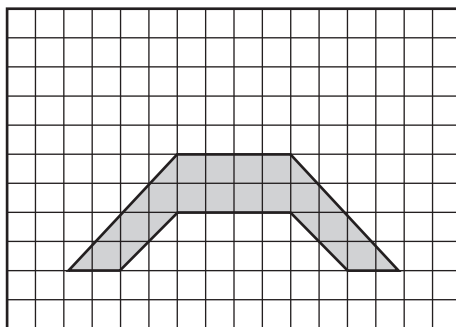
What will be the coordinates of point X' ?

- 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?

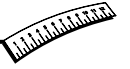
- A 10 sq units
- B 15 sq units
- C 20 sq units
- D 25 sq units

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 16π square inches. What will be the circumference, in inches, of his pizza?

619351_2

- A 4π inches
- B 8π inches
- C 16π inches
- D 32π inches

19

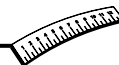
530451_2



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?

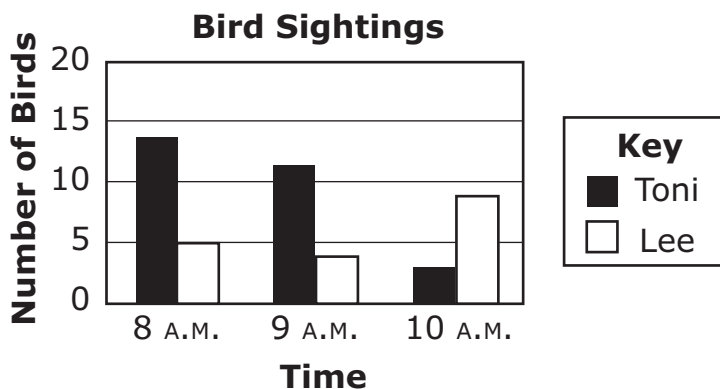
$$\text{circumference}_{\text{circle}} = \pi d$$

- 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

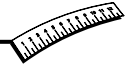
What is the probability that the student's name began with an A or B?

- 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



