Directions

Read each question and choose the best answer.

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1 Jonah has a jar of pencils. The table shows the number of pencils remaining in the jar each week.

616238_2

Jonah's Pencil Jar

Week	Number of Pencils
0	100
2	92
4	84
6	76

At the beginning of each week he takes the same number of pencils out of the jar. How many pencils does Jonah remove from the jar each week?

A 2 pencils

B 4 pencils

C 8 pencils

D 12 pencils

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2 Malia incorrectly graphed the equation $y = \frac{2}{3}x + 12$ with a slope of $\frac{3}{2}$.

614596_3

What should Malia's corrected graph look like?

A vertical

B horizontal

C less steep

D more steep

GO ON ▶

3 Shelley and her dad were building a wall with 63 bricks. Shelley carried 3 bricks at a time to the wall. Her dad carried only one pile of 6 bricks. The equation can be used to find the number of times, *x*, it took Shelley to carry the rest of the bricks to the wall.
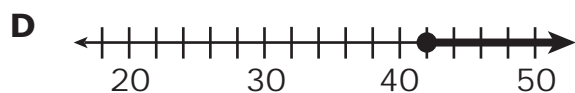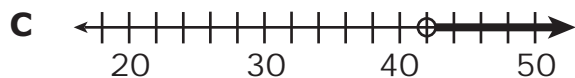
620734_3

$$63 = 3x + 6$$

How many times, *x*, will it take Shelley to carry the rest of the bricks to the wall?

A 10 times

B 15 times

C 19 times

D 23 times

4 Mara read that the temperature had to be more than 10 degrees above freezing (32 degrees) for a decal to stick to a surface. Which graph represents all of the temperatures that will allow a decal to stick?

616242_3

A

B

C

D

GO ON ▶

5 Harold experimented with a recipe by changing the number of cups of flour used. He tried four different changes in the original recipe.

538618_4

Changes in Original Recipe

Recipe	Change in Cups of Flour
1	$\frac{1}{3}$
2	$\frac{-1}{2}$
3	$1\frac{1}{4}$
4	$\frac{-3}{4}$

Which recipe used the <u>least</u> amount of flour?

A recipe 1

B recipe 2

C recipe 3

D recipe 4

6 The length of one side of a square is approximately $\sqrt{181}$ inches. Which could be the length of one side of the square?

537979_1

A 13.5 inches

B 19 inches

C 90.5 inches

D 109 inches

GO ON ▶

7 Keisha has a square jigsaw puzzle with an area of 41 square inches. Which is the **best** estimate of the length of each side of Keisha's puzzle?

565024_2

A 4 inches

B 6 inches

C 10 inches

D 20 inches

8 Sarah is making pillows. She uses $2\frac{1}{3}$ yards (yd) of fabric to make 5 pillows. How many yards of fabric will Sarah use to make 20 pillows?

539220_2

A $6\frac{1}{3}$ yd

B $9\frac{1}{3}$ yd

C $17\frac{1}{3}$ yd

D $42\frac{6}{7}$ yd

9 Raul made 8 out of 10 free throw attempts during basketball practice. How many free throws must Edward make out of 5 attempts in order to make the same ratio as Raul?

530606_1

A 4 free throws

B 3 free throws

C 2 free throws

D 1 free throw

GO ON ▶
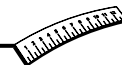
10 Beth correctly answered 5 out of 6 questions on her test. What percent of the 6 questions did Beth answer correctly?

529093_4

A $16\frac{2}{3}\%$

B 56%

C 65%

D $83\frac{1}{3}\%$

11 After taking 20% off of the original price, Victor paid $14 for a book. What was the original price of the book?

529105_4

A $14.20

B $14.80

C $16.80

D $17.50

12 What is the value of the expression shown below?

529067_3

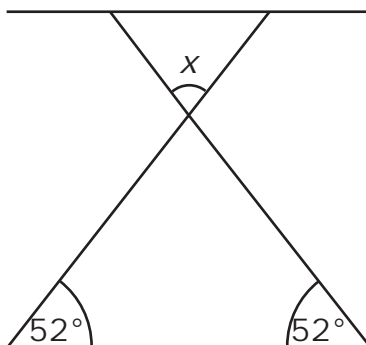$$^-5 \bullet 7 - 6 + 8$$

A $^-49$

B $^-45$

C $^-33$

D $^-25$

GO ON ▶

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

528908_1

   A 20°, 60°, 100°

   B 30°, 60°, 90°

   C 50°, 50°, 80°

   D 60°, 60°, 60°

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°

GO ON ▶
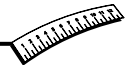
15 Triangle *XYZ* is to be translated 4 units to the right and 1 unit down to create triangle *X′ Y′ Z′*.
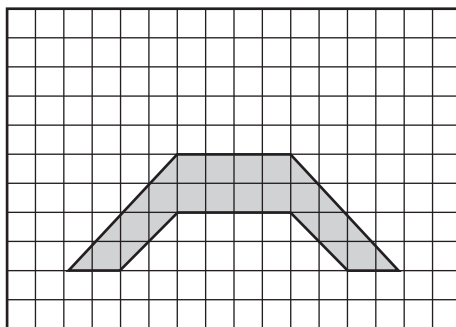
528968_1
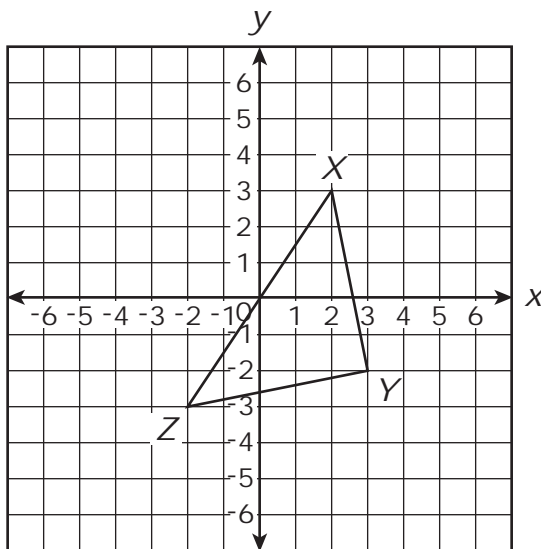
What will be the coordinates of point *X′*?

A (6, 2)

B (−2, 4)

C (4, −2)

D (2, 6)

16

528998_3

Key: ☐ = 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

524548_1

17 **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

GO ON ▶

18 Oliver made a pizza that was the same size as the pizza pan he used. The area of the pizza pan was **16**π 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

Sign

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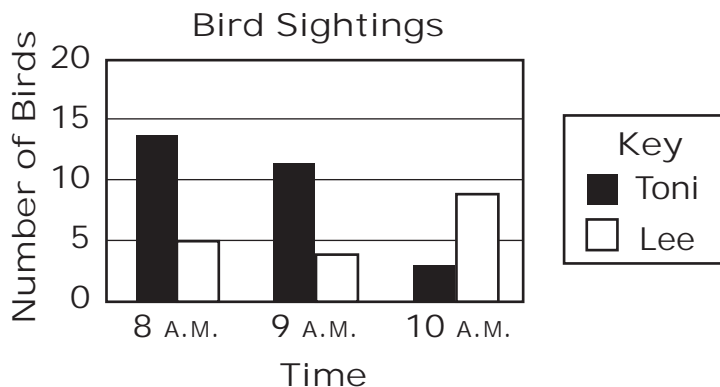
$$\text{circumference}_{\text{circle}} = \pi d$$

A $2(24) + 3.14(4)$

B $2(24) + 3.14(8)$

**C** $2(24) + 3.14(0.5 \cdot 4)$

D $2(24) + 3.14(0.5 \cdot 8)$

GO ON ▶

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

620301_3

Bird Sightings

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.

GO ON ▶
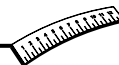
21 The teacher randomly selected one of these students to make a presentation.

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?

A $\dfrac{3}{5}$

B $\dfrac{6}{19}$

C $\dfrac{2}{25}$

D $\dfrac{4}{45}$

GO ON ▶

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

STOP

Oklahoma 2011-2012 Released Items Answer Key
Grade 7

Item Number	Correct Answer	Standard	Objective	Skill
1	B	1	1	
2	C	1	1	
3	C	1	2	
4	C	1	3	
5	D	2	1	a
6	A	2	1	b
7	B	2	1	b
8	B	2	2	a
9	A	2	2	a
10	D	2	2	b
11	D	2	2	b
12	C	2	2	c
13	A	3	1	
14	C	3	2	
15	A	3	3	
16	C	4	1	
17	A	4	1	
18	B	4	2	
19	B	4	3	
20	C	5	1	
21	C	5	2	
22	D	5	2	
23	C	5	3	