## Oklahoma School Testing Program



Oklahoma Core Curriculum Tests

### 2011–2012 Released Items

Grade 8 Mathematics

Oklahoma State Department of Education Oklahoma City, Oklahoma

# Mathematics — Directions

Read each question and choose the best answer.

- **1** Candace has saved \$5. She plans to save an additional \$4 each week. <sup>529638\_2</sup> Which equation could be used to find *t*, the total amount of money she will have saved after *w* weeks?
  - **A** t = 5W + 4
  - **B** t = 4W + 5
  - **C** t = 5w 4
  - **D** t = 4W 5



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5 Aaron's living room has a circular rug with a circumference of 8 feet. Which equation can be used to find the radius, *r*, in feet, of the circular rug?  $C = 2\pi r$   $A \quad r = \frac{\pi}{4}$   $B \quad r = \frac{4}{\pi}$   $C \quad r = 8 - 2\pi$   $D \quad r = 2\pi - 8$ 



Libble Contraction



Grace is participating in a basketball shooting contest. Each student attempts 2- and 3-point baskets. If Grace earned 12 points shooting 3-point baskets, which inequality shows the number of 2-point baskets she must make to beat her last year's score of 30 points?
A 2x - 12 > 30
B 2x + 12 > 30
C 2x - 12 < 30</li>

**D** 2x + 12 < 30



Libble Contraction



9	A scientist measured the length of a plant cell to be 5 micrometers. A micrometer is 0.000001 meter. Which shows 5 micrometers written in scientific notation?
	<b>A</b> $1 \times 10^{-6}$
	<b>B</b> $1 \times 10^{6}$
	<b>C</b> $5 \times 10^{6}$
	<b>D</b> $5 \times 10^{-6}$









- 12 The closest the planet Mercury comes to Earth is about 8 × 10<sup>7</sup> kilometers. The closest the moon comes to Earth is about 3.6 × 10<sup>5</sup> kilometers. At their closest points, how many times closer to Earth is the moon than Mercury?
  - **A**  $2.2 \times 10^{-2}$
  - **B**  $2.2 \times 10^2$
  - **C**  $4.2 \times 10^2$
  - **D**  $4.2 \times 10^{12}$



**D**  $2.87 \times 10^{14}$  people

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14	What is the value of this expression?		
		8 ÷ 2 + 2(6 –	9) <sup>2</sup>
	A	-161	
	В	-14	
	С	22	
	D	26	







**17** The width of the rectangle inside the 5-sided figure below is one-half its length.



#### What is the perimeter of this 5-sided figure?

- **A** 17 in.
- **B** 19 in.
- **C** 22 in.
- **D** 28 in.



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**D** No candidate received more than half of the votes.

1. Martin Martin Martin



