

## A Quiz #15

### Lessons 57–60

- Solve.  $-2(s - 7) = 5s$
- The two shapes are congruent to each other. Describe a transformation of Figure A that results in Figure A'.
- Simplify using exponential notation.  $\frac{8^5}{8^{10}}$
- Find the volume of the given cone. Give your answer in terms of  $\pi$ .
- In 2012, the population of Ohio was approximately  $1.2 \times 10^7$ . Write this number in standard form.
- Find the slope of the given line.

- Choose the set of data that does not represent a function.

A) 

$y = \frac{1}{4}x$	
$x$	$y$
16	4
20	5
24	6
28	7

B) 

$y = 25x - 10$	
$x$	$y$
7	165
3	65
8	190
-4	-110

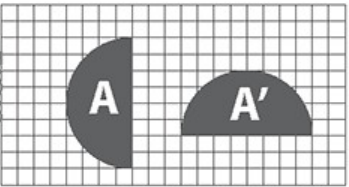
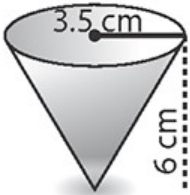
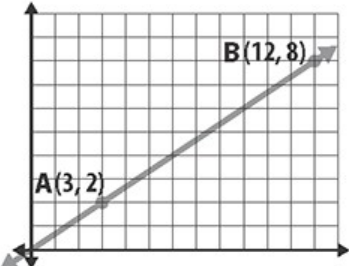
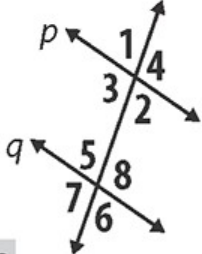
C) 

$y^2 = 10x$	
$x$	$y$
10	-10
10	10
1000	100
1000	-100

D) 

$y = x^2 + 2$	
$x$	$y$
10	50
20	200
30	450
40	800

- Circle the integer(s).
- The area of Connecticut is about  $5.5 \times 10^3$  square miles. Nevada is about 20 times larger. Give the approximate area of Nevada in scientific notation.
- 113 falls between which two perfect squares? Between which two integers is  $\sqrt{113}$  ?
- List the alternate exterior angles. Are alternate exterior angles always congruent, complementary, or supplementary?
- $-\sqrt{\frac{1}{169}} = ?$

<p>1.</p> <p>8.EE.7</p>	<p>2.</p>  <p>8.G.2</p>								
<p>3.</p> <p>8.EE.1</p>	<p>4.</p>  <p>8.G.9</p>								
<p>5.</p> <p>8.EE.3</p>	<p>6.</p>  <p>8.EE.5</p>								
<p>7.</p> <p>8.F.1</p>	<p>8.</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; text-align: center;">0.6683519044...</td> <td style="width: 50%; text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">6,683,519,044</td> <td style="text-align: center;"><math>17\frac{3}{17}</math></td> </tr> <tr> <td style="text-align: center;">-50</td> <td style="text-align: center;"><math>\frac{1}{3}</math></td> </tr> <tr> <td style="text-align: center;">0.4</td> <td style="text-align: center;">-0.1</td> </tr> </tbody> </table> <p>8.NS.1</p>	0.6683519044...	0	6,683,519,044	$17\frac{3}{17}$	-50	$\frac{1}{3}$	0.4	-0.1
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<p>11.</p>  <p>8.G.5</p> <p><math>p \parallel q</math></p>	<p>12.</p> <p>8.EE.2</p>								

**A Quiz #16**  
**Lessons 61–64**

1. Which line has the least steep slope?
2.  $(3.4 \times 10^3)(1.2 \times 10^3) = ?$  Write the product in scientific notation.
3. Solve for  $j$ . How many solutions are there?  $4j - 7 = j + 3(4 + j)$
4. Which equation does not represent a function?  
A)  $y^2 = 4x - 1$     B)  $y = 8x \div 3$     C)  $y = 5x^2 + 1$     D)  $y = 13x$
5. If  $m\angle A = 58^\circ$ , what other angles measure  $58^\circ$ ?
6. Simplify using exponential notation.  $\frac{(5^3)^4}{(5^2)(5^2)}$
7.  $\sqrt{66}$  falls between which two integers?
8. Find the volume of a cylinder with a radius of 20 in. and a height of 3.2 in. Give your answer in terms of  $\pi$ .
9. A particular seed weighs 0.00002811 ounces. Give this value using scientific notation.
10. The image is congruent to the original. Describe a transformation of Figure V that results in Figure V'.
11. Find the slope by calculating  $\frac{\text{rise}}{\text{run}}$ .
12.  $\sqrt[3]{\frac{64}{1,000}} = ?$

<p>1.</p> <p>8.EE.5</p>	<p>2.</p> <p>8.EE.4</p>
<p>3.</p> <p>8.EE.7</p>	<p>4.</p> <p>8.F.1</p>
<p>5.</p> <p>8.G.5</p> <p><math>y \parallel z</math></p>	<p>6.</p> <p>8.EE.1</p>
<p>7.</p> <p>8.NS.2</p>	<p>8.</p> <p>8.G.9</p>
<p>9.</p> <p>8.EE.3</p>	<p>10.</p> <p>8.G.2</p>
<p>11.</p> <p>8.EE.6</p>	<p>12.</p> <p>8.EE.2</p>