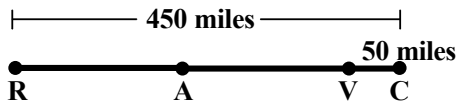
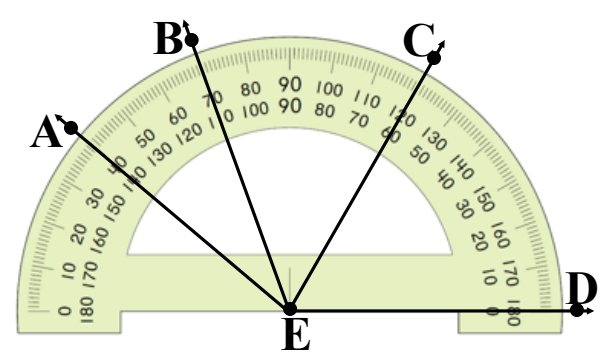
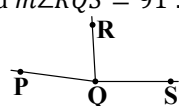
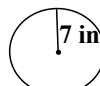
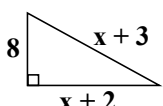
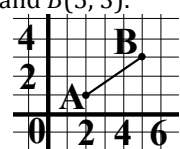


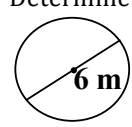
Looking Ahead: Geometry Unit 1

The questions below are examples of the type of questions you'll see on your **Semester 1 Final**, **Semester 2 Final**, and the **CST**. This is how these tests will ask you to apply your skills from **Unit 1**, as well as your common sense math skills. They are structured in a way that is deliberately complicated, but the skills are the same as what you have learned up to this point.

**Semester 1 Final Examples**

<p>1. In the diagram below, <math>RC = 450</math> miles, <math>VC = 50</math> miles, and <math>A</math> is the midpoint of <math>\overline{RV}</math>. Find <math>AV</math>.</p> 	<p>5. Find the measure of <math>\angle AEC</math>. Then, classify it as acute, right, or obtuse.</p> 
<p>2. <math>m\angle PQR = 82^\circ</math> and <math>m\angle RQS = 91^\circ</math>. Find <math>m\angle PQS</math>.</p> 	<p>6. Find the circumference of the circle. Use 3.14 for <math>\pi</math>, and round your answer to the nearest tenth.</p> 
<p>3. Find the area of the figure.</p> 	<p>7. Find the coordinates of the midpoint of <math>\overline{AB}</math> with endpoints <math>A(2, 1)</math> and <math>B(5, 3)</math>.</p> 

**Semester 2 Final Examples**

<p>8. The point <math>(3, 2)</math> lies on a circle whose equation is <math>(x + 1)^2 + (y + 1)^2 = r^2</math>. What is the radius of the circle?</p>	<p>10. <math>G</math> is the midpoint of <math>\overline{FH}</math>. <math>G</math> has coordinates <math>(4, 1)</math> and <math>H</math> has coordinates <math>(3, 6)</math>. What are the coordinates of <math>F</math>?</p>
<p>9. Determine the area.</p> 	

**CST Examples**

11.	A sewing club is making a quilt consisting of 12 squares, with each side of the square measuring 8 inches. If the quilt has 3 rows and 4 columns, what is the perimeter of the quilt? <b>A.</b> 32 inches <b>B.</b> 24 inches <b>C.</b> 56 inches <b>D.</b> 112 inches	13.	The point $(-5, 8)$ lies on a circle whose equation is $(x + 1)^2 + (y - 3)^2 = r^2$ . What is the radius of the circle? <b>A.</b> 41 <b>B.</b> 61 <b>C.</b> $\sqrt{41}$ <b>D.</b> $\sqrt{61}$
12.	The minute hand of a clock is 3 inches long. What is the area of the circle, in square inches, created as the hand sweeps the hours? Leave your answer in terms of pi. <b>A.</b> $3\pi$ <b>B.</b> $6\pi$ <b>C.</b> $9\pi$ <b>D.</b> $18\pi$		