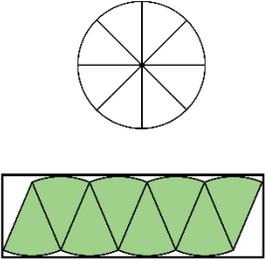


# Lesson 5 Assessment

## Estimating and Determining the Area of a Circle

Estimating and Determining the Area of a Circle			
<p>Understands the relationships between radius, diameter, and area of a circle</p> <p>I can cut the circle into equal sections and rearrange them into a rectangle. Half the circumference, or <math>\pi r</math>, is the length and <math>r</math> is the width.</p> 	<p>Calculates the area of a circle, given its radius</p> <p>What is the area of a circle with radius of 2 cm?</p> <p>I used the area formula for a circle.  <math>3.14 \times 2^2 = 12.56</math>                      The area is 12.56 cm<sup>2</sup>.</p>	<p>Calculates the area of a circle, given its diameter</p> <p>What is the area of a circle with diameter of 6 cm?</p> <p>I found the radius first and then the area.  <math>6 \div 2 = 3</math>                      The radius is 3 cm.  <math>3.14 \times 3^2 = 28.26</math>                      The area is 28.26 cm<sup>2</sup>.</p>	<p>Uses circle area formula to solve problems</p> <p>Determine the area of a pizza with a circumference of 94.2 cm.</p> <p>I found the diameter first, then the radius, and finally the area.  <math>d = C \div \pi = 94.2 \div 3.14</math>  <math>= 30</math>                      The diameter is 30 cm.  <math>30 \div 2 = 15</math>                      The radius is 15 cm.  <math>A = \pi r^2 = 3.14 \times 15^2</math>  <math>= 706.5</math>                      The area is 706.5 cm<sup>2</sup>.</p>
Observations/Documentation			