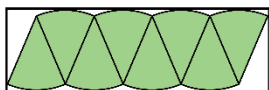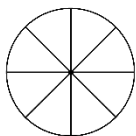# Lesson 6 Assessment
Estimating and Determining the Area of a Circle

Estimating and Determining the Area of a Circle

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

Observations/Documentation