Name: _____

Lesson Guide
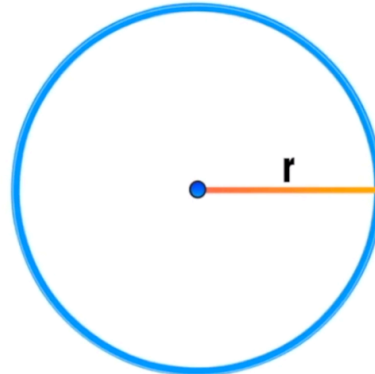
This lesson guide accompanies the following video lesson:

Arc Length and Sector Area of Circles
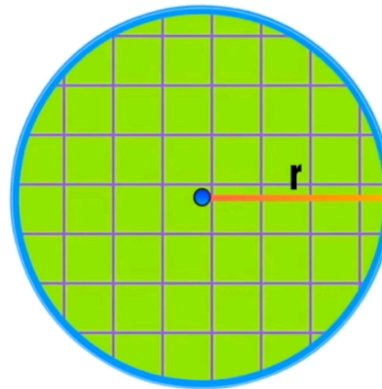
Quick Review

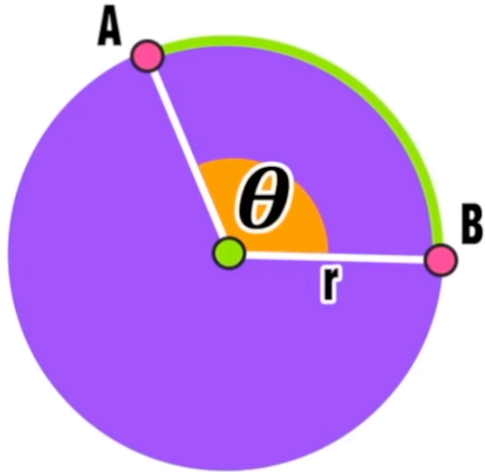**Circumference**

r

Area

r

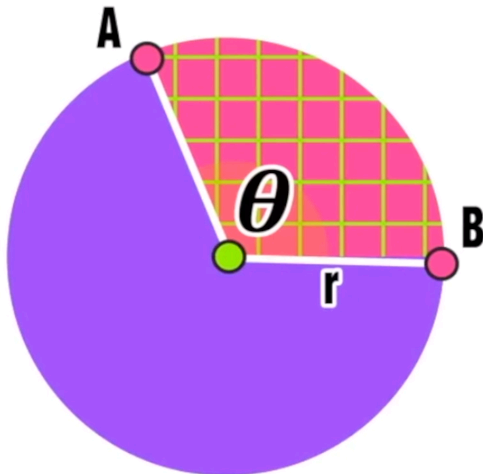**In your own words, what is the key difference between the circumference and the area of a circle?**

Arc Length

Length of $\overset{\frown}{AB}$

Arc Length

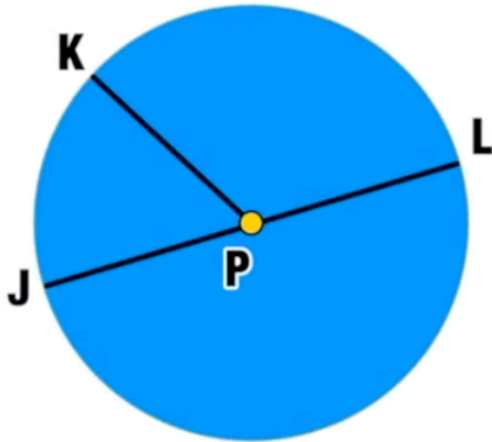Arc length represents a portion of the circumference of a circle.

Sector Area

Area of a Sector

Sector Area

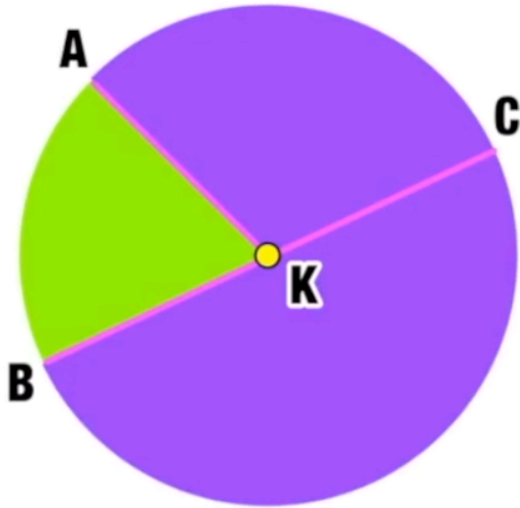Sector area represents a portion of the area of a circle.

Observe circle P below. If m∡KPL is 120° and diameter $\overline{JL}$ equals 24 cm, find the length of $\overset{\frown}{KL}$.

My Answer= _____

Observe circle K below. If $\overline{KC}$ is a radius with a length of 5cm and m∡AKC is 117°, find the area of the green shaded region.

My Answer= _____

ANSWER KEY

Practice Problem #1: 25.1 centimeters

Practice Problem #2: 4.4 square centimeters