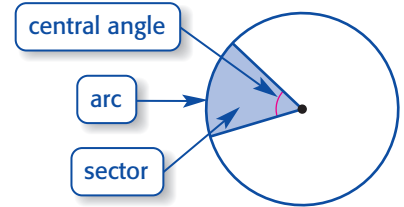


# Area of Sectors

**6.G.8** Calculate the area of a sector of a circle, given the measure of a central angle and the radius of the circle.

Sometimes you need to know the area of a sector of a circle in order to find a geometric probability. A **sector** of a circle is a region of a circle bounded by a central angle and its intercepted arc.



Key Concept	Area of a Sector
<p>If a sector of a circle has an area of <math>A</math> square units, a central angle measuring <math>N^\circ</math>, and a radius of <math>r</math> units, then <math>A = \frac{N}{360}\pi r^2</math>.</p>	

## EXERCISES

For Exercises 1–12, the diameter of each circle is 15 centimeters. Find the area of each sector. Round to the nearest tenth.

