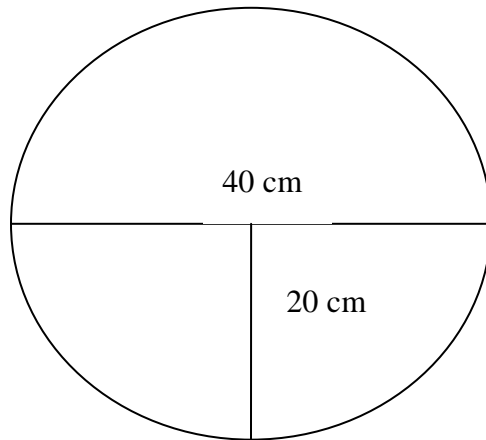
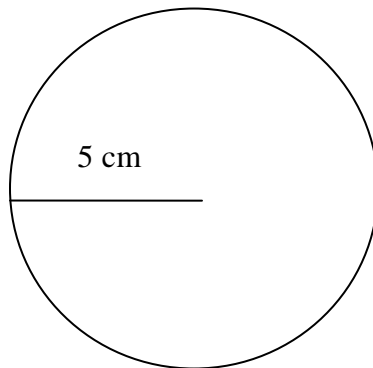


**Area of Circles:** Finding the area of a circle involves using a simple formula. There are a couple of things you need to know before I reveal the formula. You learned in the unit on perimeter that a line passing through the middle of a circle is called the diameter. A line that **STOPS** in the middle of the circle is called the radius. A radius is **exactly half of the diameter**. For example, if the diameter of a circle was 40 cm, the radius would be 20 cm.



The formula for finding the area of a circle is  $3.14 \times \text{radius}^2$ . ( $\Pi r^2$ )

For example, if a circle had a radius of 5 cm, the area would be equal to  $3.14 \times 5^2$ . Since  $3.14 \times 25 = 78.5$ , the area of the circle would be  $78.5 \text{ cm}^2$ .



**TASK #1:** Draw a circle using a compass. Find the radius using a ruler (in cm). Then, find the area of the circle using the formula  $\Pi r^2$ .

**TASK #2:** Find the area of the shaded region.

