

zxName: \_\_\_\_\_ Period: \_\_\_\_\_

## Area & Circumference of a Circle

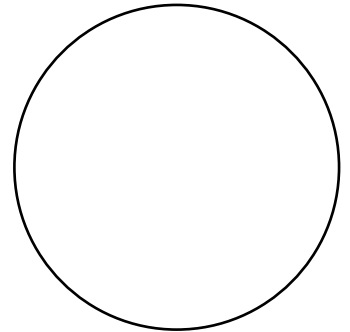
### Diameter and Radius

A circle is defined by an \_\_\_\_\_ set of points that are \_\_\_\_\_ from a center point.

The \_\_\_\_\_ of a circle is the distance from the center of a circle to the outside of the circle. This distance is \_\_\_\_\_ .

The \_\_\_\_\_ of a circle is the distance from one end of the circle to the other, passing through the center.

$$\text{Diameter} = 2 \cdot \text{Radius}$$



### Area & Circumference

To calculate the area of a circle, use the formula:

To calculate the circumference of a circle, use the formula:

### Sectors & Arc Length

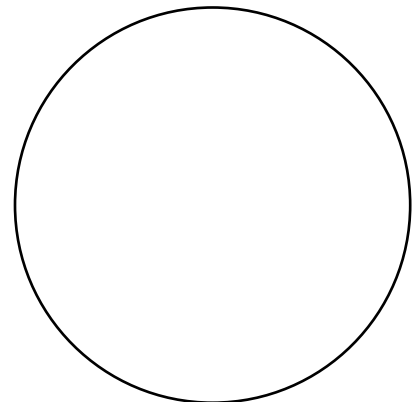
A \_\_\_\_\_ of a circle is a fraction of a circle. You can think of it as a “slice” of a pizza.

How To Calculate the Area of a Sector of a Circle:

- 1.
- 2.
- 3.

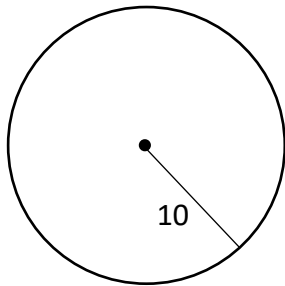
How To Calculate the Arc Length of a Sector of a Circle:

- 1.
- 2.
- 3.



Examples:

1. Calculate the area and circumference of the circle below. Leave your answer in exact form.



2. Calculate the area and arc length of the sector of the circle given below.

