## Circles

Circle: the set of all points in a plane that are the same distance from a point called the center.

RadiuS: the distance from the center to any point on the circle.
Diameter: the distance across the circle through the center.


Area of Circle: the space that is taken up inside a figure.

$$
\begin{gathered}
A=\pi r^{2} \\
\text { Area }=\pi \times \text { radius }^{2}
\end{gathered}
$$

Example 1:


Example 2:


Circumference of Circle: the distance around a circle.

$$
C=\pi d
$$

## or

$$
C=2 \pi r
$$

Example 1:


Example 2:


