## Circles and Circumference

Circles are a very important part of our world. Look around the room to find a circular shape. We will name the parts of a circle and find its circumference. We will explore a term called "pi" that is connected to circles.

Circumference is the distance around a circle. Image being an ant and crawling around the edge of a circle. When the ant reaches the point on the circle where he started, he has traveled the circumference of the circle.

Parts of a Circle

Circumference of a Circle

## Parts of a Circle



## Circumference of a Circle

Diameter is the length of a line segment that goes across a circle passing through the center point. The diameter is twice the radius.
$\operatorname{Pi}(\pi)$ is the ratio of the circumference of a circle to its diameter $\left(\frac{C}{d}\right)$. $\pi$ is approximately equal to 3.14 .

$$
C=\pi \times \quad d
$$

$$
\mathrm{C}=\pi \times \mathrm{d} \quad \longrightarrow \quad \mathrm{C}=\pi \times(2 \times r) \quad \text { or } \quad \mathrm{C}=2 \times \pi \times \mathrm{r}
$$

Find the circumference for each of the circles.

$$
\text { Radius }=6 \text { in }
$$



$$
\text { Diameter }=14 \mathrm{ft}
$$



