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

Chord is a line segment with both endpoints on the 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.

Circumference is the distance around a circle.

A **central angle** is an angle formed between two radii. The vertex of the angle is the center of the circle.

Radius is the length of a line segment going from the center to the edge of a circle. (plural, radii)

Circumference of a Circle

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Pi (π) is the ratio of the circumference of a circle to its diameter ($\frac{C}{d}$). π is approximately equal to 3.14.

$$C = \pi \times d$$
 \longrightarrow

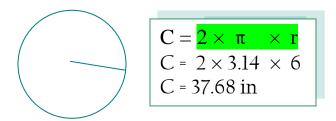
$$C = \pi \times d$$

 $C = \pi \times (2 \times r)$ or

 $C = 2 \times \pi \times r$

Find the circumference for each of the circles.

Radius = 6 in



Diameter = 14 ft

