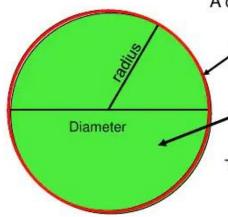
Introduction to Circle

The Area and Perimeter of a Circle

A circle is defined by its diameter or radius



The perimeter or circumference of a circle is the distance around the outside

The area of a circle is the space inside it

The ratio of
$$\frac{circumference}{diameter} = \pi (pi)$$

 π is an irrational number whose value to 15 decimal places is $\pi = 3.14159265358979...$ We usually say $\pi \approx 3.14$

The circumference is found using the formula

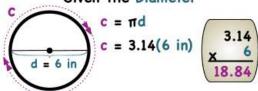
 $C=\pi d$ or $C=2\pi r$ (since d=2r)

The area is found using the formula

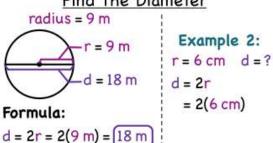
 $C=\pi r^2$

Assignment

Find the Circumference Given the Diameter



Find the Diameter



Fill in the blanks.

Diameter	Circumference
15 cm	
	314 feet
30 yd	
	25.12 km
41 miles	
	6.28 mm