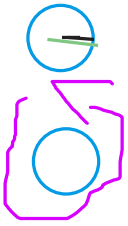
NAME Cyndy _____ DATE _____ PERIOD _____

Lesson 1 Reteach Kbzoom

Circumference

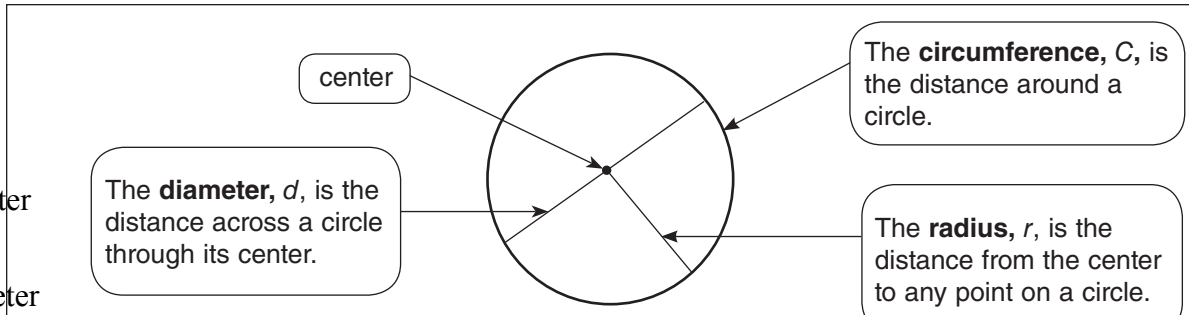
Diameter

Radius is half diameter



C = 2 x r x 3.14

C = 2 x 3.14 x r



The diameter of a circle is twice its radius. $d = 2r$

The radius is half the diameter. $r = \frac{d}{2}$

The circumference of a circle is equal to π times its diameter or π times twice its radius. $C = \pi d$ $C = 2\pi r$

Example 1

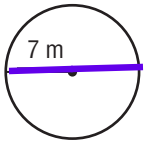
The radius of a circle is 7 meters. Find the diameter.

$d = 2r$

$d = 2 \cdot 7$ Replace *r* with 7.

$d = 14$ Multiply.

The diameter is 14 meters.



Example 2

Find the circumference of a circle with a radius that is 13 inches. Use 3.14 for π. Round to the nearest tenth.

$C = 2\pi r$ Write the formula.

$C \approx 2 \times 3.14 \times 13$ Replace *r* with 13 and π with 3.14.

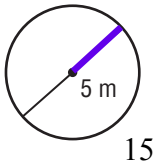
$C \approx 81.64$ Multiply.

Rounded to the nearest tenth, the circumference is about 81.6 inches.

Exercises

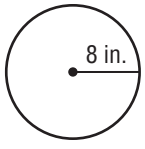
Find the circumference of each circle. Use 3.14 or $\frac{22}{7}$ for π. Round to the nearest tenth if necessary.

1.



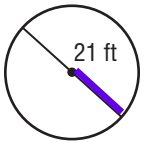
15.7 m

2.



50.2 in

3.



10.5