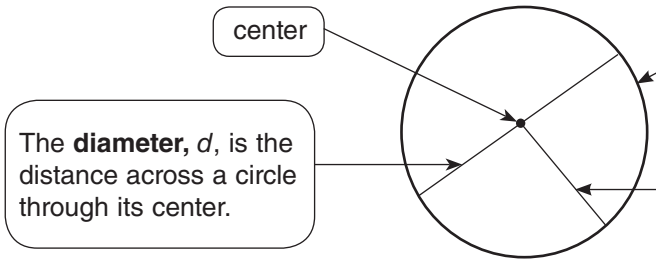
NAME Kylie DATE _____ PERIOD _____

# Lesson 1 Reteach

KBZOOM

## *Circumference*




| | |
|---|---|
| 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 $\pi$ times its diameter or $\pi$ times twice its radius. | $C = \pi d$<br>$C = 2\pi r$ |

### Example 1

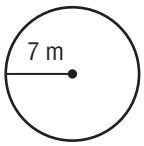
**The radius of a circle is 7 meters. Find the diameter.**

$d = 2r$

$d = 2 \cdot 7$ 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 $\pi$. 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 $\pi$ with 3.14.

$C \approx 81.64$ Multiply.

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

C = 2 x 3.14 x r

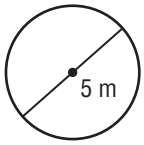
pi

r = 1/2 d

### Exercises

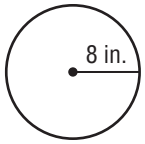
**Find the circumference of each circle. Use 3.14 or $\frac{22}{7}$ for $\pi$. Round to the nearest tenth if necessary.**

**1.**




15.7 m

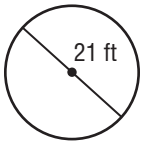
**2.**




50.24 in

50.2 in

**3.**




65.94 ft

65.9 ft