Area of a Circle

Name _____

Key Concept and Vocabulary

Pi
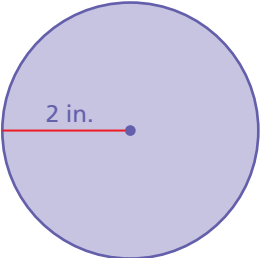
The area is "pi r squared."

$\pi \approx 3.14$

$$A = \pi r^2$$
$$\approx 3.14 \times 2^2$$
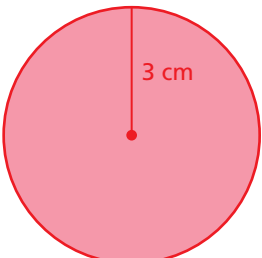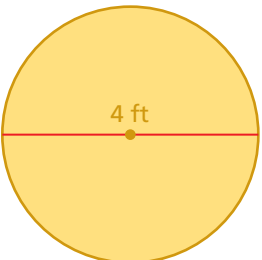$$= 12.56 \text{ in.}^2$$

2 in.

Area is measured in square units.
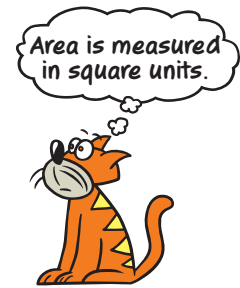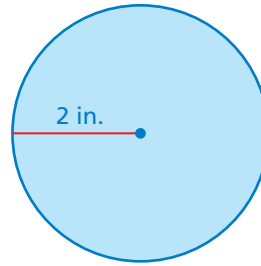
PRACTICE MAKES *PURR*-FECT™

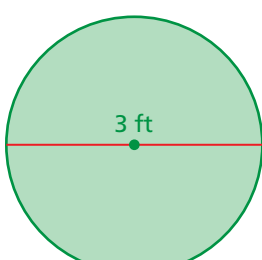*Check your answers at BigIdeasMath.com.*

Find the area of the circle. Include the units in your answer.

1.

2 in.

$A = \pi r^2$

$\approx 3.14 \times$ ▢

$=$ ▢

2.

3 cm

$A = \pi r^2$

$\approx 3.14 \times$ ▢

$=$ ▢

3.

4 ft

$A = \pi r^2$

$\approx 3.14 \times$ ▢

$=$ ▢

4.

3 ft

$A = \pi r^2$

$\approx 3.14 \times$ ▢

$=$ ▢

5. STAINED GLASS Find the area of the stained glass window.

Area $\approx$ ▢

6. COST The colored glass costs $0.25 per square inch. How much does it cost to buy the glass to make the stained glass window?

Cost $\approx$ $ ▢

16 in.