

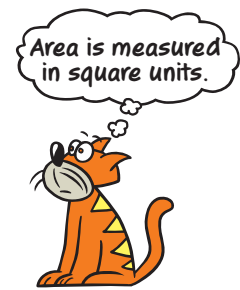
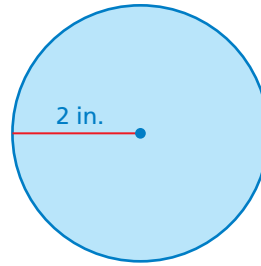
Area of a Circle

Name _____

Key Concept and Vocabulary



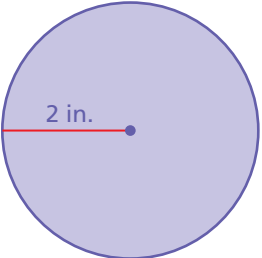
Pi
 $\pi \approx 3.14$
 $A = \pi r^2$
 $\approx 3.14 \times 2^2$
 $= 12.56 \text{ in.}^2$

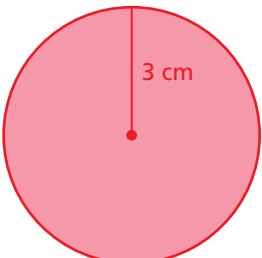


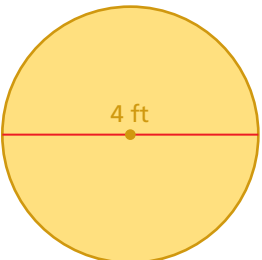
PRACTICE MAKES PURR-FECT™

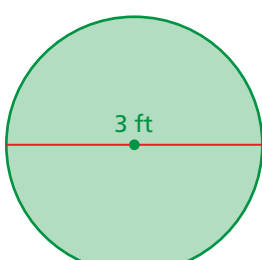
Check your answers at BigIdeasMath.com.

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

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

2.  $A = \pi r^2$
 $\approx 3.14 \times 3^2$
 $= 28.26 \text{ cm}^2$

3.  $A = \pi r^2$
 $\approx 3.14 \times 4^2$
 $= 50.24 \text{ ft}^2$

4.  $A = \pi r^2$
 $\approx 3.14 \times 1.5^2$
 $= 7.065 \text{ ft}^2$

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

Area $\approx 200.96 \text{ in.}^2$

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 $\approx \$ 50.24$

