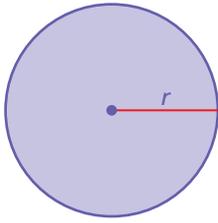


# REVIEW: Areas of Circles

Name \_\_\_\_\_

## Key Concept and Vocabulary



$$A = \pi r^2$$

$$\pi \approx 3.14$$

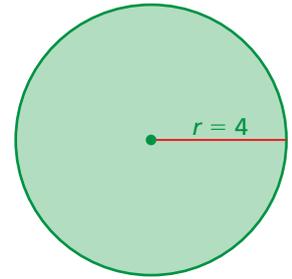
$$\pi \approx \frac{22}{7}$$



## Visual Model

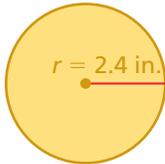
Area of a Circle:

$$\begin{aligned} A &= \pi r^2 \\ &= \pi(4)^2 \\ &= \pi(16) \\ &\approx 50.2 \end{aligned}$$



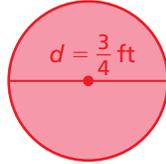
## Skill Examples

1.



$$\begin{aligned} A &= \pi(2.4)^2 \\ &\approx 18.1 \text{ in.}^2 \end{aligned}$$

2.



$$\begin{aligned} A &= \pi\left(\frac{3}{8}\right)^2 \\ &\approx 0.4 \text{ ft}^2 \end{aligned}$$

## Application Example

3. Find the area of a dime.

$$\begin{aligned} A &= \pi(0.9)^2 \\ &\approx 2.5 \text{ cm}^2 \end{aligned}$$



1.8 cm

••• The area is about 2.5 square centimeters.

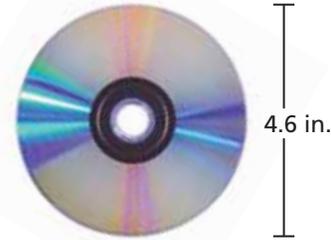
## PRACTICE MAKES PURR-FECT™



Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

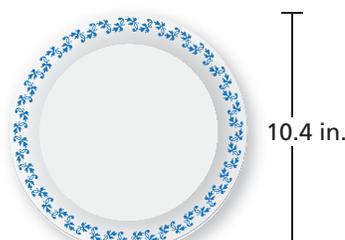
Find the area. Round your answer to the nearest tenth.

4.



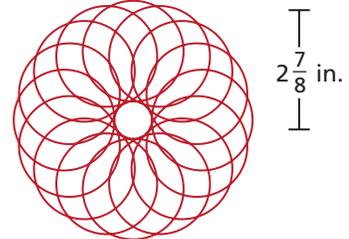
Area  $\approx$  16.6 in.<sup>2</sup>

5.



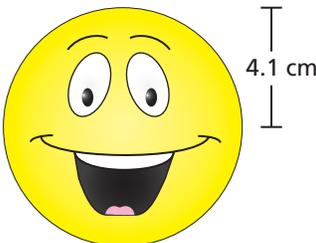
Area  $\approx$  84.9 in.<sup>2</sup>

6.



Area  $\approx$  26.0 in.<sup>2</sup>

7.



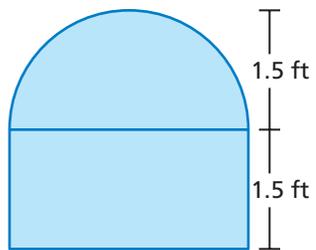
Area  $\approx$  52.8 cm<sup>2</sup>

8.



Area  $\approx$  3.5 ft<sup>2</sup>

9.



Area  $\approx$  8.0 ft<sup>2</sup>

10. **BASKETBALL** Find the area of the center circle on a basketball court. about 113.0 ft<sup>2</sup>

11. **BASKETBALL** Find the area of a free throw region on a basketball court. about 56.5 ft<sup>2</sup>

