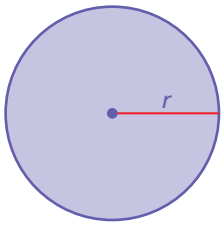
REVIEW: Areas of Circles

Name _____

Key Concept and Vocabulary



$A = \pi r^2$

$\pi \approx 3.14$

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

Visual Model

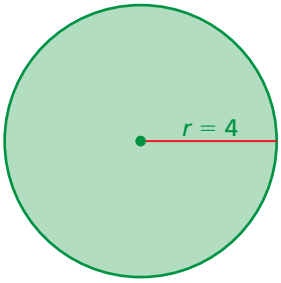
Area of a Circle:

$A = \pi r^2$

$= \pi(4)^2$

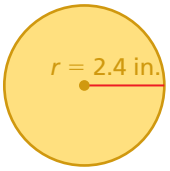
$= \pi(16)$

≈ 50.2



Skill Examples

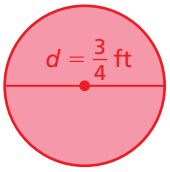
1.



$A = \pi(2.4)^2$

$\approx 18.1 \text{ in.}^2$

2.



$A = \pi\left(\frac{3}{8}\right)^2$

$\approx 0.4 \text{ ft}^2$

Application Example

3. Find the area of a dime.

$A = \pi(0.9)^2$

$\approx 2.5 \text{ cm}^2$

1.8 cm

∴ The area is about 2.5 square centimeters.

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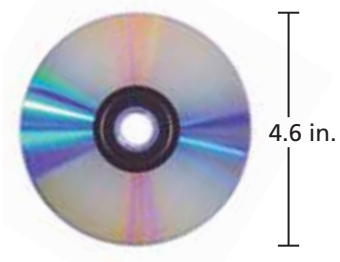
Check your answers at BigIdeasMath.com.

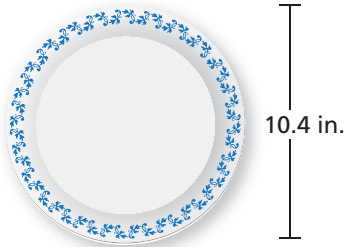
Find the area. Round your answer to the nearest tenth.

4.



Area ≈ _____

5.

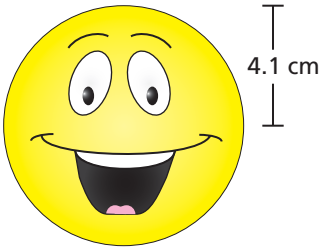


Area ≈ _____

6.

Area ≈ _____

7.

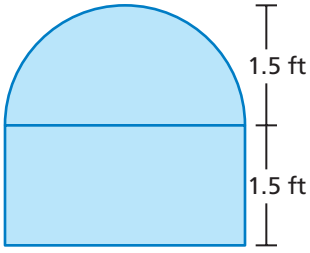


Area ≈ _____

8.

Area ≈ _____

9.



Area ≈ _____

10. **BASKETBALL** Find the area of the center circle on a basketball court. _____

11. **BASKETBALL** Find the area of a free throw region on a basketball court. _____