



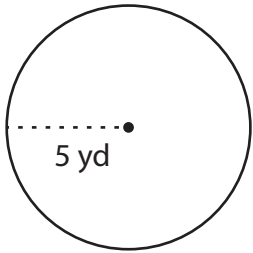
Area of Circles

Name _____

Score _____

AC:02

Example 1: Find the area of the circle.

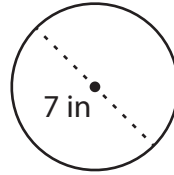


$$\text{Area of circle} = \pi r^2$$

$$\text{Radius (r)} = 5 \text{ yd}$$

$$\begin{aligned} \text{Area} &= \pi \times 5^2 \\ &= \pi \times 25 \\ &= \mathbf{25\pi \text{ yd}^2} \end{aligned}$$

Example 2: Find the area of the circle.



$$\text{Area of circle} = \pi r^2$$

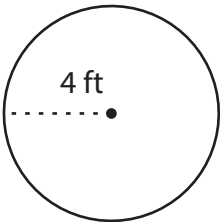
$$\text{Diameter (d)} = 2r ; r = \frac{d}{2}$$

$$\text{Diameter (d)} = 7 \text{ in} ; r = 3.5 \text{ in}$$

$$\begin{aligned} \text{Area} &= \pi \times 3.5^2 = \pi \times 12.25 \\ &= \mathbf{12.25\pi \text{ in}^2} \end{aligned}$$

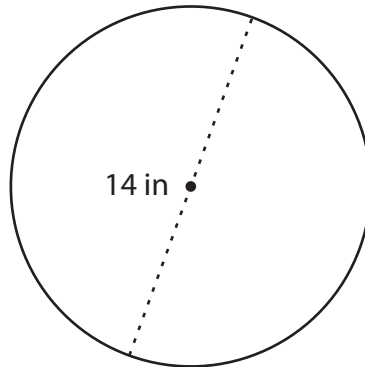
Find the area of each circle.

1)



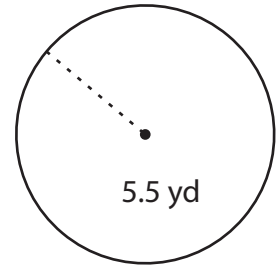
$$\text{Area} = \underline{\hspace{2cm}} \text{ ft}^2$$

2)



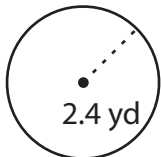
$$\text{Area} = \underline{\hspace{2cm}} \text{ in}^2$$

3)



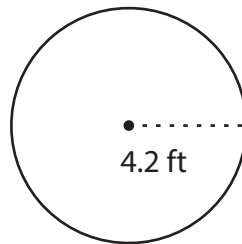
$$\text{Area} = \underline{\hspace{2cm}} \text{ yd}^2$$

4)



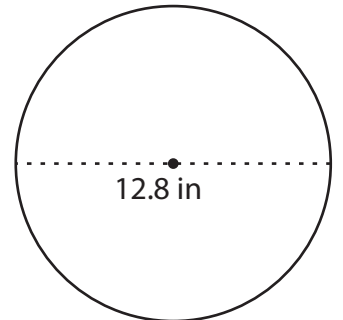
$$\text{Area} = \underline{\hspace{2cm}} \text{ yd}^2$$

5)



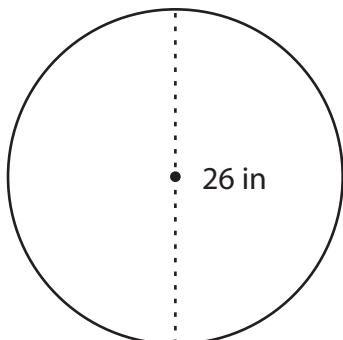
$$\text{Area} = \underline{\hspace{2cm}} \text{ ft}^2$$

6)



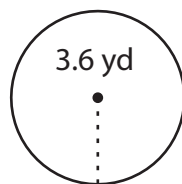
$$\text{Area} = \underline{\hspace{2cm}} \text{ in}^2$$

7)



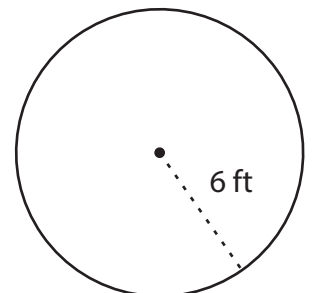
$$\text{Area} = \underline{\hspace{2cm}} \text{ in}^2$$

8)



$$\text{Area} = \underline{\hspace{2cm}} \text{ yd}^2$$

9)



$$\text{Area} = \underline{\hspace{2cm}} \text{ ft}^2$$



Area of Circles

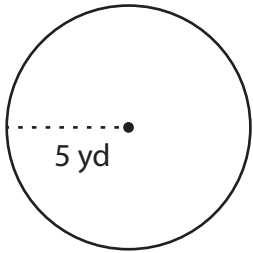
Name _____

Score _____

Answer key

AC:02

Example 1: Find the area of the circle.

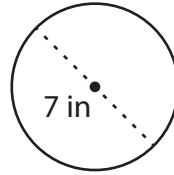


$$\text{Area of circle} = \pi r^2$$

$$\text{Radius (r)} = 5 \text{ yd}$$

$$\begin{aligned} \text{Area} &= \pi \times 5^2 \\ &= \pi \times 25 \\ &= \mathbf{25\pi \text{ yd}^2} \end{aligned}$$

Example 2: Find the area of the circle.



$$\text{Area of circle} = \pi r^2$$

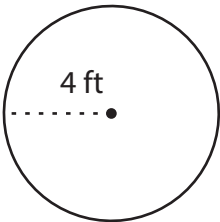
$$\text{Diameter (d)} = 2r ; r = \frac{d}{2}$$

$$\text{Diameter (d)} = 7 \text{ in} ; r = 3.5 \text{ in}$$

$$\begin{aligned} \text{Area} &= \pi \times 3.5^2 = \pi \times 12.25 \\ &= \mathbf{12.25\pi \text{ in}^2} \end{aligned}$$

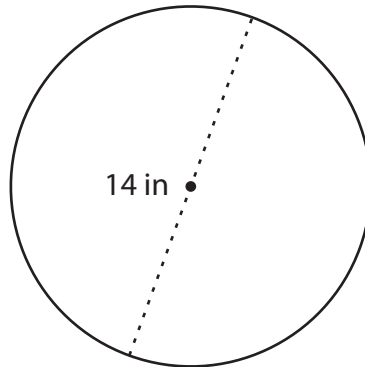
Find the area of each circle.

1)



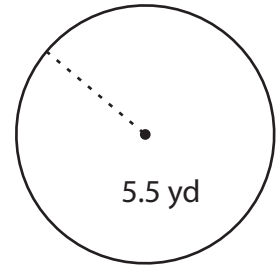
$$\text{Area} = \underline{\mathbf{16\pi}} \text{ ft}^2$$

2)



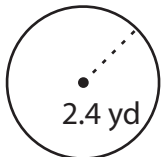
$$\text{Area} = \underline{\mathbf{49\pi}} \text{ in}^2$$

3)



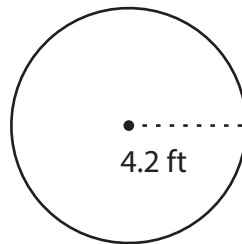
$$\text{Area} = \underline{\mathbf{30.25\pi}} \text{ yd}^2$$

4)



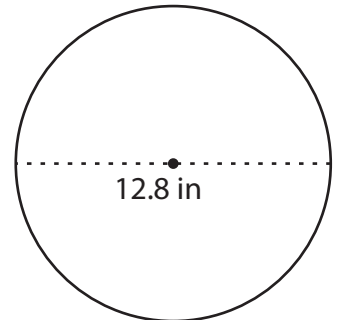
$$\text{Area} = \underline{\mathbf{5.76\pi}} \text{ yd}^2$$

5)



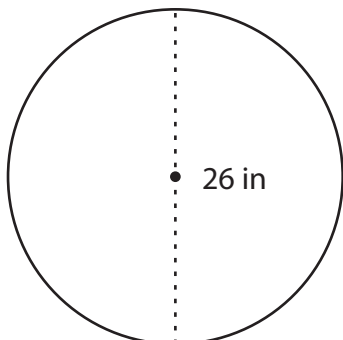
$$\text{Area} = \underline{\mathbf{17.64\pi}} \text{ ft}^2$$

6)



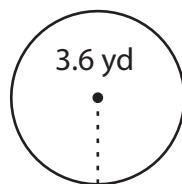
$$\text{Area} = \underline{\mathbf{40.96\pi}} \text{ in}^2$$

7)



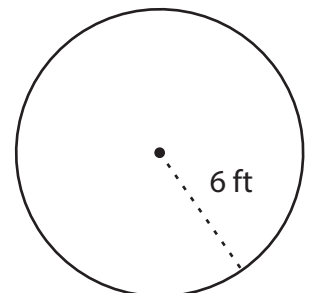
$$\text{Area} = \underline{\mathbf{169\pi}} \text{ in}^2$$

8)



$$\text{Area} = \underline{\mathbf{12.96\pi}} \text{ yd}^2$$

9)



$$\text{Area} = \underline{\mathbf{36\pi}} \text{ ft}^2$$