# *Area of Circles*
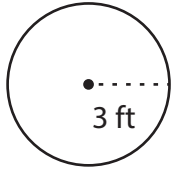
Find the area of the circle (Use $\pi = \dfrac{22}{7}$ or 3.14). Round the answer to the two decimal places.

**Example 1**
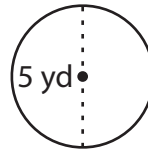
Area of circle $= \pi r^2$

Radius (r) = 3 ft

3 ft

$\begin{aligned} \text{Area} &= 3.14 \times 3^2 \\ &= 3.14 \times 9 \\ &= \mathbf{28.26\ ft^2} \end{aligned}$

**Example 2**

Area of circle $= \pi r^2$

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

Diameter (d) = 7 yd ; r = 2.5 yd

5 yd

$\text{Area} = 3.14 \times 2.5^2 = 3.14 \times 6.25$

$= \mathbf{19.63\ yd^2}$

Find the diameter and area of each circle (Use $\pi = \dfrac{22}{7}$ or 3.14). Round the answer to the two decimal places.

1)  Radius = 3.2 ft

Diameter = (_____)

Area = (_____)

2)  Radius = 1.5 yd

Diameter = (_____)

Area = (_____)

3)  Radius = 9 in

Diameter = (_____)

Area = (_____)

Find the radius and area of each circle (Use $\pi = \dfrac{22}{7}$ or 3.14). Round the answer to the two decimal places.

1)  Diameter = 11 in

Radius = (_____)

Area = (_____)

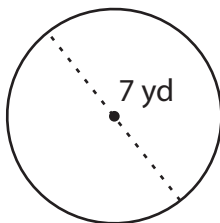2)  Diameter = 16 ft

Radius = (_____)

Area = (_____)

3)  Diameter = 12.2 yd

Radius = (_____)

Area = (_____)

Find the area and radius/diameter of each circle (Use $\pi = \dfrac{22}{7}$ or 3.14). Round the answer to the two decimal places.
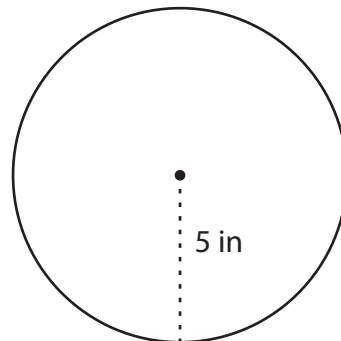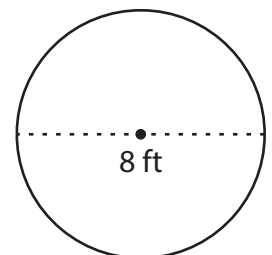
1)

7 yd

Radius = (_____)

Area = (_____)

2)

5 in

Diameter = (_____)

Area = (_____)

3)

8 ft

Radius = (_____)

Area = (_____)

# *Area of Circles*
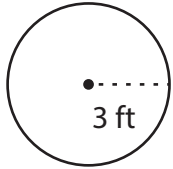
### Answer key

Find the area of the circle (Use $\pi = \dfrac{22}{7}$ or 3.14). Round the answer to the two decimal places.

**Example 1**



3 ft

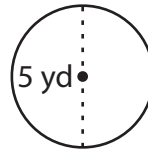Area of circle = $\pi r^2$

Radius (r) = 3 ft

Area $= 3.14 \times 3^2$

$= 3.14 \times 9$

**$= 28.26$ ft²**

**Example 2**



5 yd

Area of circle = $\pi r^2$

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

Diameter (d) = 7 yd ; r = 2.5 yd

Area $= 3.14 \times 2.5^2 = 3.14 \times 6.25$

**$= 19.63$ yd²**

Find the diameter and area of each circle (Use $\pi = \dfrac{22}{7}$ or 3.14). Round the answer to the two decimal places.

1)  Radius = 3.2 ft

Diameter = **6.4 ft**

Area = **32.15 ft²**

2)  Radius = 1.5 yd

Diameter = **3 yd**

Area = **7.07 yd²**

3)  Radius = 9 in

Diameter = **18 in**

Area = **254.34 in²**

Find the radius and area of each circle (Use $\pi = \dfrac{22}{7}$ or 3.14). Round the answer to the two decimal places.

1)  Diameter = 11 in

Radius = **5.5 in**

Area = **94.99 in²**

2)  Diameter = 16 ft

Radius = **8 ft**

Area = **200.96 ft²**

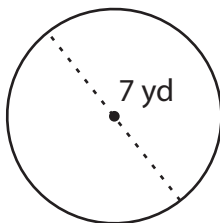3)  Diameter = 12.2 yd

Radius = **6.1 yd**

Area = **116.84 yd²**

Find the area and radius/diameter of each circle (Use $\pi = \dfrac{22}{7}$ or 3.14). Round the answer to the two decimal places.
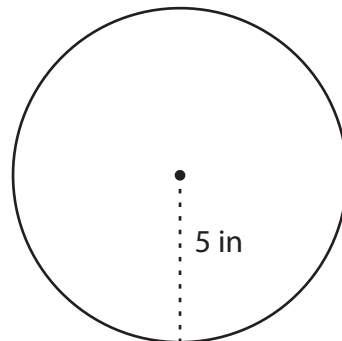
1)



7 yd

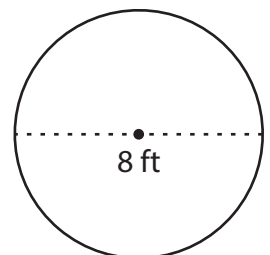Radius = **3.5 yd**

Area = **38.47 yd²**

2)



5 in

Diameter = **10 in**

Area = **78.5 in²**

3)



8 ft

Radius = **4 ft**

Area = **50.24 ft²**