



Area of Circles

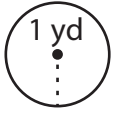
Name _____

Score _____

AC:08

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

Example 1

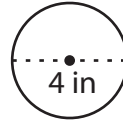


$$\text{Area of circle} = \pi r^2$$

$$\text{Radius (r)} = 1 \text{ yd}$$

$$\begin{aligned} \text{Area} &= 3.14 \times 1^2 \\ &= 3.14 \times 1 \\ &= \mathbf{3.14 \text{ yd}^2} \end{aligned}$$

Example 2



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

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

$$\text{Diameter (d)} = 4 \text{ in} ; r = 2 \text{ in}$$

$$\begin{aligned} \text{Area} &= 3.14 \times 2^2 = 3.14 \times 4 \\ &= \mathbf{12.56 \text{ in}^2} \end{aligned}$$

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

1) Radius = 7 in

Diameter =

Area =

2) Radius = 10 ft

Diameter =

Area =

3) Radius = 6.5 yd

Diameter =

Area =

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

1) Diameter = 8.8 ft

Radius =

Area =

2) Diameter = 17 yd

Radius =

Area =

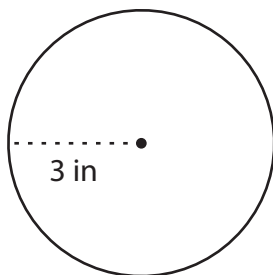
3) Diameter = 24 in

Radius =

Area =

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

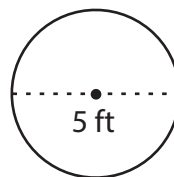
1)



Diameter =

Area =

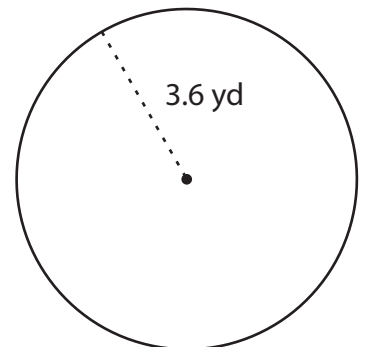
2)



Radius =

Area =

3)



Diameter =

Area =



Area of Circles

Name _____

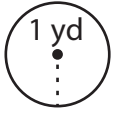
Score _____

Answer key

AC:08

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

Example 1

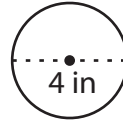


$$\text{Area of circle} = \pi r^2$$

$$\text{Radius (r)} = 1 \text{ yd}$$

$$\begin{aligned} \text{Area} &= 3.14 \times 1^2 \\ &= 3.14 \times 1 \\ &= \mathbf{3.14 \text{ yd}^2} \end{aligned}$$

Example 2



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

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

$$\text{Diameter (d)} = 4 \text{ in} ; r = 2 \text{ in}$$

$$\begin{aligned} \text{Area} &= 3.14 \times 2^2 = 3.14 \times 4 \\ &= \mathbf{12.56 \text{ in}^2} \end{aligned}$$

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

1) Radius = 7 in

Diameter = **14 in**

Area = **153.86 in²**

2) Radius = 10 ft

Diameter = **20 ft**

Area = **314 ft²**

3) Radius = 6.5 yd

Diameter = **13 yd**

Area = **132.67 yd²**

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

1) Diameter = 8.8 ft

Radius = **4.4 ft**

Area = **60.79 ft²**

2) Diameter = 17 yd

Radius = **8.5 yd**

Area = **226.87 yd²**

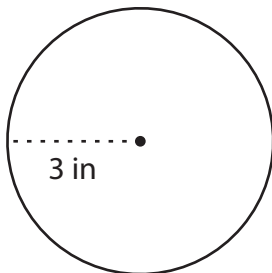
3) Diameter = 24 in

Radius = **12 in**

Area = **452.16 in²**

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

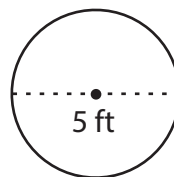
1)



Diameter = **6 in**

Area = **28.26 in²**

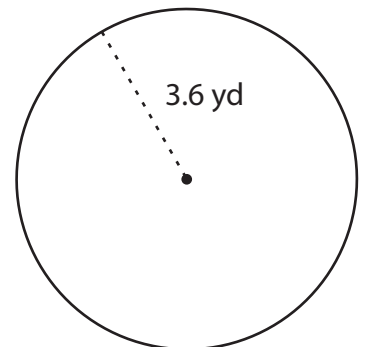
2)



Radius = **2.5 ft**

Area = **19.63 ft²**

3)



Diameter = **7.2 yd**

Area = **40.69 yd²**