Area of Circles

Name _____

Score _____

AC:09

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

Example 1

Area of circle = πr^2

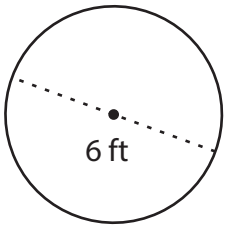
Radius (r) = 1.5 in

Area $= 3.14 \times 1.5^2$

$= 3.14 \times 2.25$

$= 7.07$ in^2

Example 2



Area of circle = πr^2

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

Diameter (d) = 6 ft ; r = 3 ft

Area $= 3.14 \times 3^2 = 3.14 \times 9$

$= 28.26$ ft^2

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 = 8 yd

Diameter = _____

Area = _____

2) Radius = 7.5 in

Diameter = _____

Area = _____

3) Radius = 11 ft

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 = 25 in

Radius = _____

Area = _____

2) Diameter = 15.6 ft

Radius = _____

Area = _____

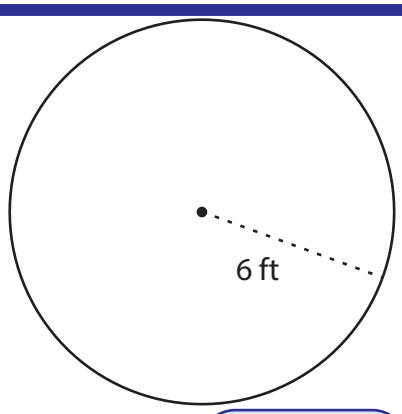
3) Diameter = 8 yd

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.

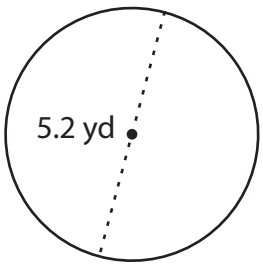
1)



Diameter = _____

Area = _____

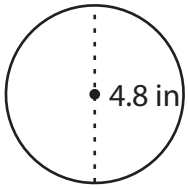
2)



Radius = _____

Area = _____

3)



Radius = _____

Area = _____

Area of Circles

Name _____

Score _____

Answer key

AC:09

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

Example 1

Area of circle = πr^2

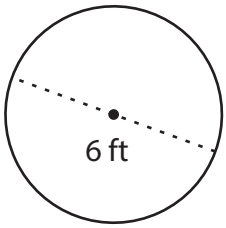
Radius (r) = 1.5 in

Area $= 3.14 \times 1.5^2$

$= 3.14 \times 2.25$

$= 7.07$ in^2

Example 2



Area of circle = πr^2

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

Diameter (d) = 6 ft ; r = 3 ft

Area $= 3.14 \times 3^2 = 3.14 \times 9$

$= 28.26$ ft^2

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 = 8 yd

Diameter = **16 yd**

Area = **200.96 yd^2**

2) Radius = 7.5 in

Diameter = **15 in**

Area = **176.63 in^2**

3) Radius = 11 ft

Diameter = **22 ft**

Area = **379.94 ft^2**

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 = 25 in

Radius = **12.5 in**

Area = **490.63 in^2**

2) Diameter = 15.6 ft

Radius = **7.8 ft**

Area = **191.04 ft^2**

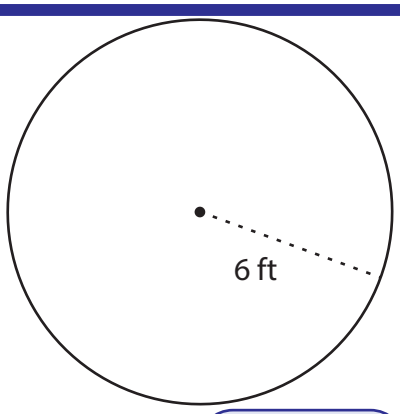
3) Diameter = 8 yd

Radius = **4 yd**

Area = **50.24 yd^2**

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.

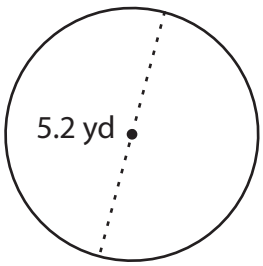
1)



Diameter = **12 ft**

Area = **113.04 ft^2**

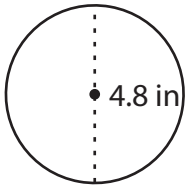
2)



Radius = **2.6 yd**

Area = **21.23 yd^2**

3)



Radius = **2.4 in**

Area = **18.09 in^2**