Area of Circles

Name _____

Score _____

AC:03

Example 1: Find the area of the circle.

Area of circle = πr^2

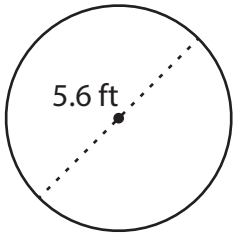
Radius (r) = 1.1 in

Area $= \pi \times 1.1^2$

$= \pi \times 1.21$

$= 1.21\pi$ in^2

Example 2: Find the area of the circle.



Area of circle = πr^2

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

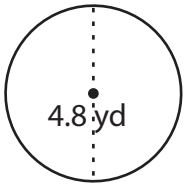
Diameter (d) = 7 ft ; r = 2.3 ft

Area $= \pi \times 2.3^2 = \pi \times 5.29$

$= 5.29\pi$ ft^2

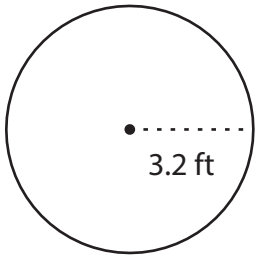
Find the area of each circle.

1)



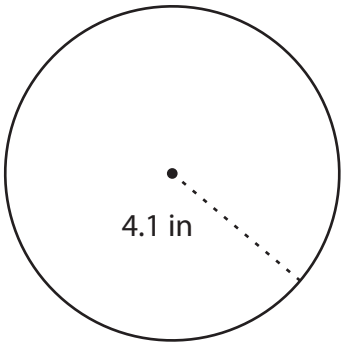
Area = _____ yd^2

2)



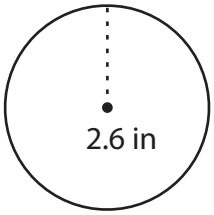
Area = _____ ft^2

3)



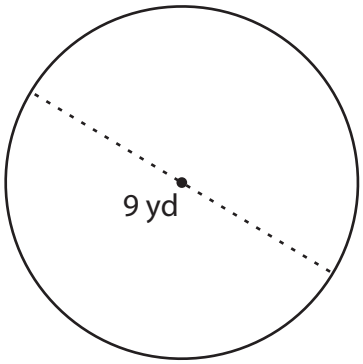
Area = _____ in^2

4)



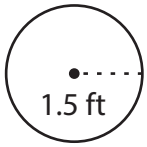
Area = _____ in^2

5)



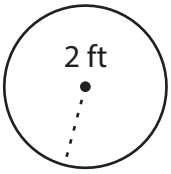
Area = _____ yd^2

6)



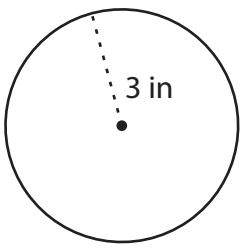
Area = _____ ft^2

7)



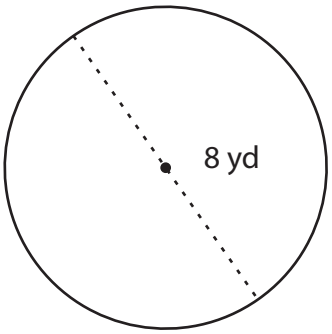
Area = _____ ft^2

8)



Area = _____ in^2

9)



Area = _____ yd^2

Area of Circles

Name _____

Score _____

Answer key

AC:02

Example 1: Find the area of the circle.

Area of circle = πr^2

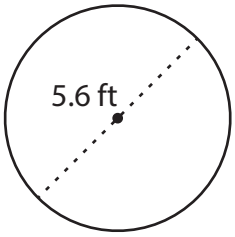
Radius (r) = 1.1 in

Area $= \pi \times 1.1^2$

$= \pi \times 1.21$

$= 1.21\pi$ in^2

Example 2: Find the area of the circle.



Area of circle = πr^2

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

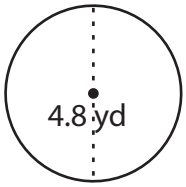
Diameter (d) = 7 ft ; r = 2.3 ft

Area $= \pi \times 2.3^2 = \pi \times 5.29$

$= 5.29\pi$ ft^2

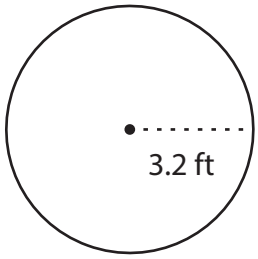
Find the area of each circle.

1)



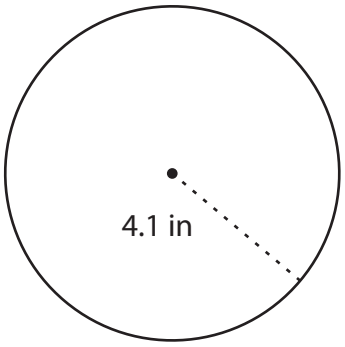
Area = **5.76π** yd^2

2)



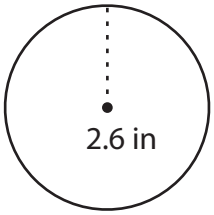
Area = **10.24π** ft^2

3)



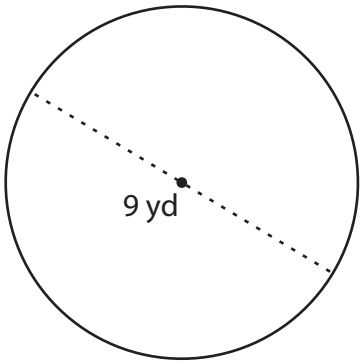
Area = **16.81π** in^2

4)



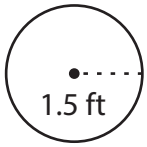
Area = **6.76π** in^2

5)



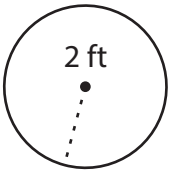
Area = **20.25π** yd^2

6)



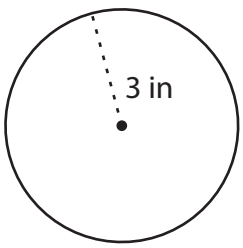
Area = **2.25π** ft^2

7)



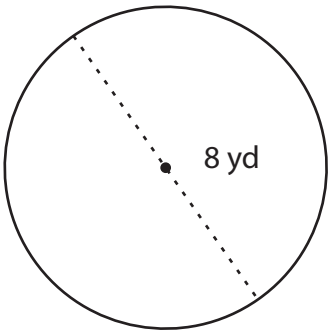
Area = **4π** ft^2

8)



Area = **9π** in^2

9)



Area = **16π** yd^2