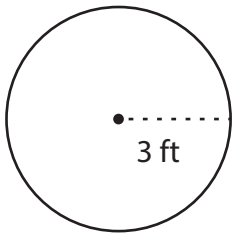
Area of Circles

Name _____

Score _____

AC:01

Example 1: Find the area of the circle.



Area of circle = πr^2

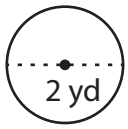
Radius (r) = 3 ft

Area $= \pi \times 3^2$

$= \pi \times 9$

$= 9\pi$ ft^2

Example 2: Find the area of the circle.



Area of circle = πr^2

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

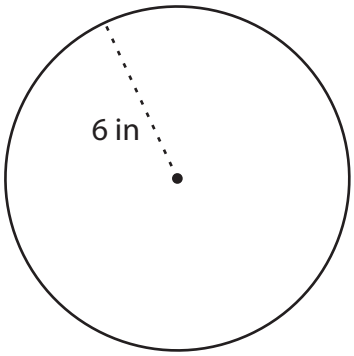
Diameter (d) = 2 yd ; r = 1 yd

Area $= \pi \times 1^2 = \pi \times 1$

$= \pi$ yd^2

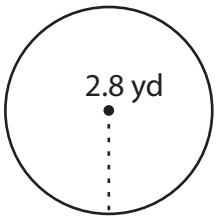
Find the area of each circle.

1)



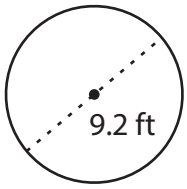
Area = _____ in^2

2)



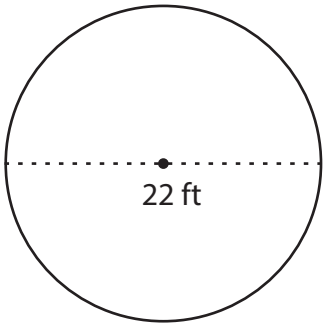
Area = _____ yd^2

3)



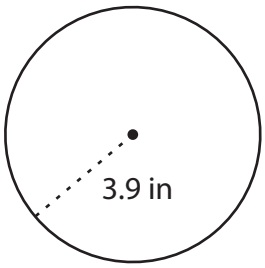
Area = _____ ft^2

4)



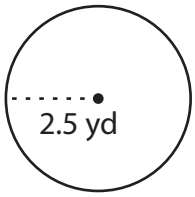
Area = _____ ft^2

5)



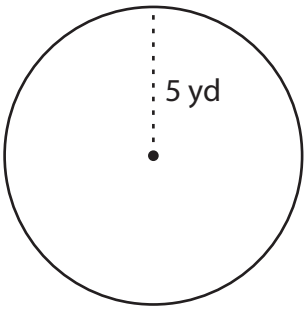
Area = _____ in^2

6)



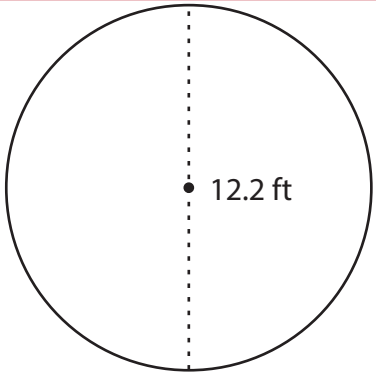
Area = _____ yd^2

7)



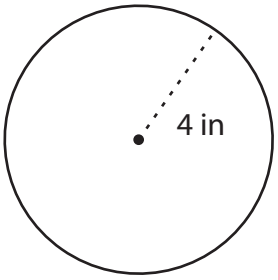
Area = _____ yd^2

8)



Area = _____ ft^2

9)



Area = _____ in^2

Area of Circles

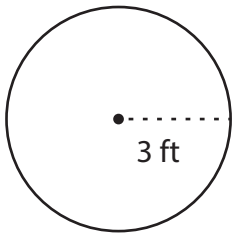
Name _____

Score _____

Answer key

AC:01

Example 1: Find the area of the circle.



Area of circle = πr^2

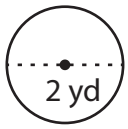
Radius (r) = 3 ft

Area $= \pi \times 3^2$

$= \pi \times 9$

$= 9\pi$ ft^2

Example 2: Find the area of the circle.



Area of circle = πr^2

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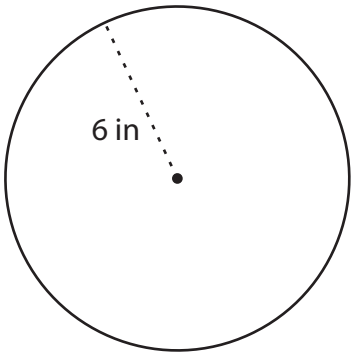
Diameter (d) = 2 yd ; r = 1 yd

Area $= \pi \times 1^2 = \pi \times 1$

$= \pi$ yd^2

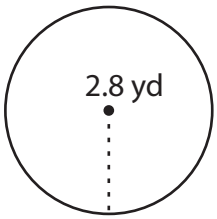
Find the area of each circle.

1)



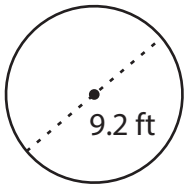
Area = **36π** in^2

2)



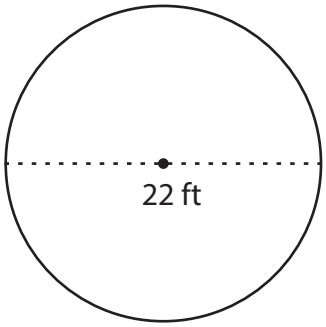
Area = **7.84π** yd^2

3)



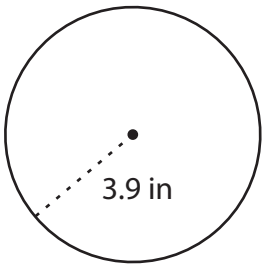
Area = **21.16π** ft^2

4)



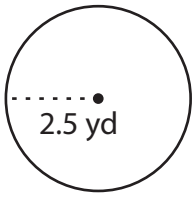
Area = **121π** ft^2

5)



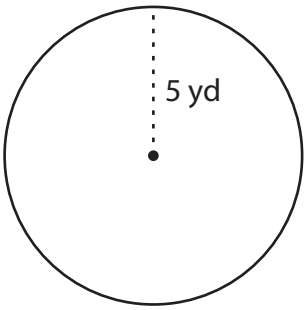
Area = **15.21π** in^2

6)



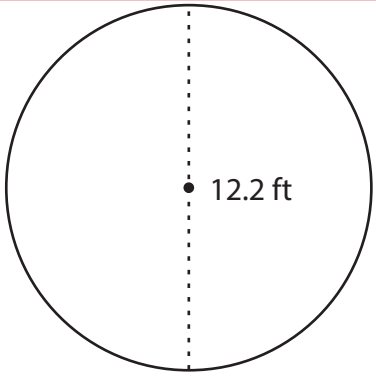
Area = **6.25π** yd^2

7)



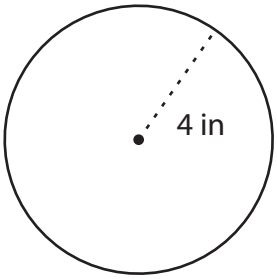
Area = **25π** yd^2

8)



Area = **37.21π** ft^2

9)



Area = **16π** in^2