



# Area of Circles

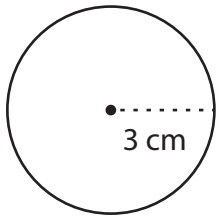
Name \_\_\_\_\_

Score \_\_\_\_\_

AC:11

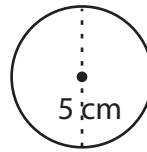
Find the area of the circle (Use  $\pi = \frac{22}{7}$  or 3.14). Round the answer to the two decimal places.

Example 1



Area of circle =  $\pi r^2$   
 Radius (r) = 3 cm  
 Area =  $3.14 \times 3^2$   
 =  $3.14 \times 9$   
 = **28.26 cm<sup>2</sup>**

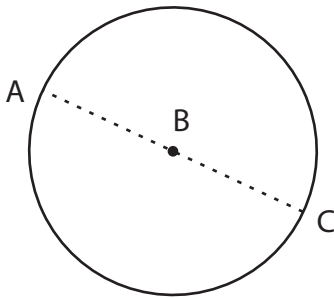
Example 2



Area of circle =  $\pi r^2$   
 Diameter (d) = 2r ;  $r = \frac{d}{2}$   
 Diameter (d) = 5 cm ; r = 2.5 cm  
 Area =  $3.14 \times 2.5^2 = 3.14 \times 6.25$   
 = **19.63 cm<sup>2</sup>**

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)

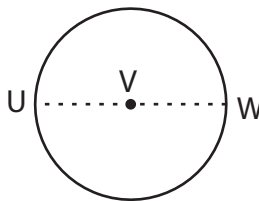


BC = 4 m

AC = \_\_\_\_\_

Area = \_\_\_\_\_

2)

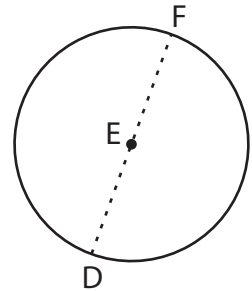


UW = 5.6 mm

VW = \_\_\_\_\_

Area = \_\_\_\_\_

3)

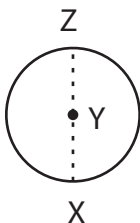


DF = 7 cm

EF = \_\_\_\_\_

Area = \_\_\_\_\_

4)

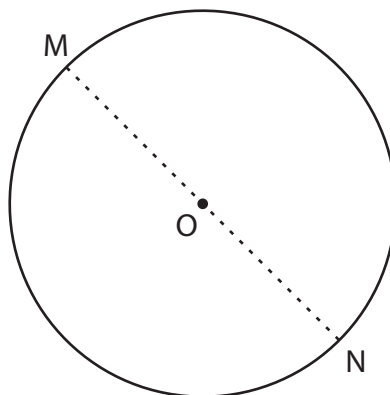


YZ = 2 mm

XZ = \_\_\_\_\_

Area = \_\_\_\_\_

5)

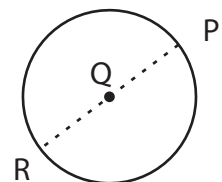


MN = 10 cm

ON = \_\_\_\_\_

Area = \_\_\_\_\_

6)



PQ = 2.6 m

PR = \_\_\_\_\_

Area = \_\_\_\_\_



# Area of Circles

Name \_\_\_\_\_

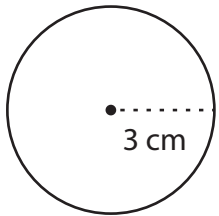
Score \_\_\_\_\_

## Answer key

AC:11

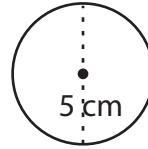
Find the area of the circle (Use  $\pi = \frac{22}{7}$  or 3.14). Round the answer to the two decimal places.

Example 1



$$\begin{aligned} \text{Area of circle} &= \pi r^2 \\ \text{Radius (r)} &= 3 \text{ cm} \\ \text{Area} &= 3.14 \times 3^2 \\ &= 3.14 \times 9 \\ &= \mathbf{28.26 \text{ cm}^2} \end{aligned}$$

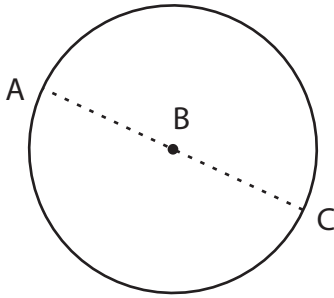
Example 2



$$\begin{aligned} \text{Area of circle} &= \pi r^2 \\ \text{Diameter (d)} &= 2r ; r = \frac{d}{2} \\ \text{Diameter (d)} &= 5 \text{ cm} ; r = 2.5 \text{ cm} \\ \text{Area} &= 3.14 \times 2.5^2 = 3.14 \times 6.25 \\ &= \mathbf{19.63 \text{ cm}^2} \end{aligned}$$

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)

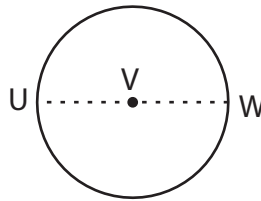


BC = 4 m

AC = 8 m

Area = 50.24 m<sup>2</sup>

2)

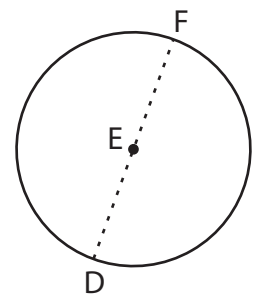


UW = 5.6 mm

VW = 2.8 mm

Area = 24.62 mm<sup>2</sup>

3)

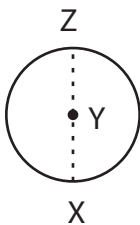


DF = 7 cm

EF = 3.5 cm

Area = 38.47 cm<sup>2</sup>

4)

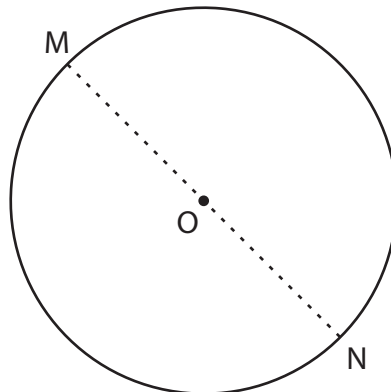


YZ = 2 mm

XZ = 4 mm

Area = 12.56 mm<sup>2</sup>

5)

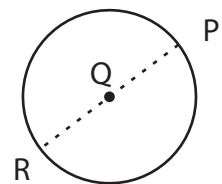


MN = 10 cm

ON = 5 cm

Area = 78.5 cm<sup>2</sup>

6)



PQ = 2.6 m

PR = 5.2 m

Area = 21.23 m<sup>2</sup>