



Area of Circles

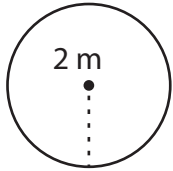
Name _____

Score _____

AC:10

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

Example 1

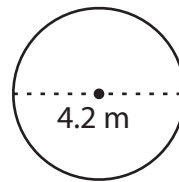


$$\text{Area of circle} = \pi r^2$$

$$\text{Radius } (r) = 2 \text{ m}$$

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

Example 2



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

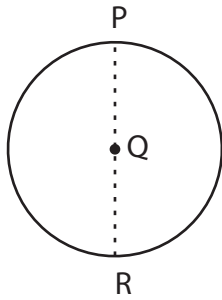
$$\text{Diameter } (d) = 2r ; r = \frac{d}{2}$$

$$\text{Diameter } (d) = 4.2 \text{ m} ; r = 2.1 \text{ m}$$

$$\begin{aligned} \text{Area} &= 3.14 \times 2.1^2 = 3.14 \times 4.41 \\ &= \mathbf{13.85 \text{ m}^2} \end{aligned}$$

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)

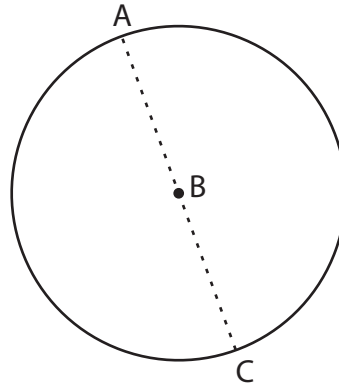


$$QR = 2.5 \text{ mm}$$

$$PR = \underline{\hspace{2cm}}$$

$$\text{Area} = \underline{\hspace{2cm}}$$

2)

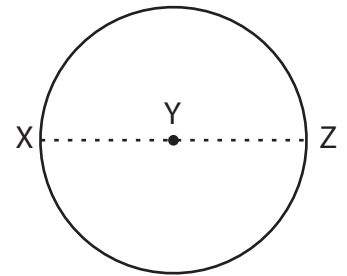


$$AB = 4 \text{ cm}$$

$$AC = \underline{\hspace{2cm}}$$

$$\text{Area} = \underline{\hspace{2cm}}$$

3)

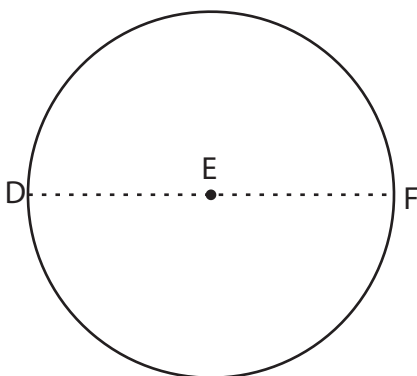


$$XZ = 6 \text{ m}$$

$$XY = \underline{\hspace{2cm}}$$

$$\text{Area} = \underline{\hspace{2cm}}$$

4)

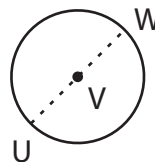


$$DF = 8.8 \text{ m}$$

$$EF = \underline{\hspace{2cm}}$$

$$\text{Area} = \underline{\hspace{2cm}}$$

5)

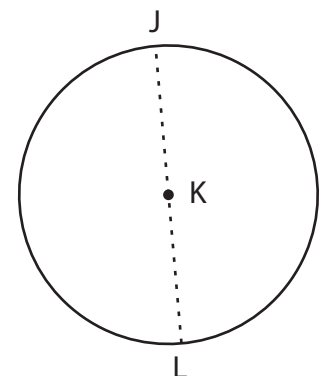


$$UW = 3 \text{ mm}$$

$$UV = \underline{\hspace{2cm}}$$

$$\text{Area} = \underline{\hspace{2cm}}$$

6)



$$KL = 3.5 \text{ cm}$$

$$JL = \underline{\hspace{2cm}}$$

$$\text{Area} = \underline{\hspace{2cm}}$$



Area of Circles

Name _____

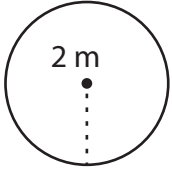
Score _____

Answer key

AC:10

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

Example 1

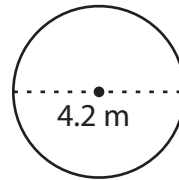


$$\text{Area of circle} = \pi r^2$$

$$\text{Radius (r)} = 2 \text{ m}$$

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

Example 2



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

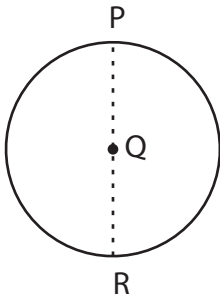
$$\text{Diameter (d)} = 2r ; r = \frac{d}{2}$$

$$\text{Diameter (d)} = 4.2 \text{ m} ; r = 2.1 \text{ m}$$

$$\begin{aligned} \text{Area} &= 3.14 \times 2.1^2 = 3.14 \times 4.41 \\ &= \mathbf{13.85 \text{ m}^2} \end{aligned}$$

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)

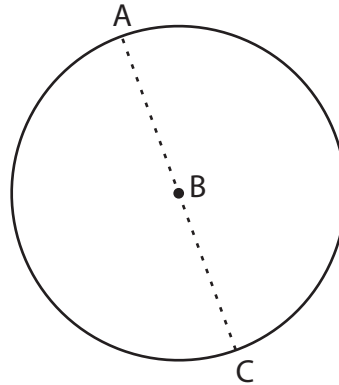


$$QR = 2.5 \text{ mm}$$

$$PR = \mathbf{5 \text{ mm}}$$

$$\text{Area} = \mathbf{19.63 \text{ mm}^2}$$

2)

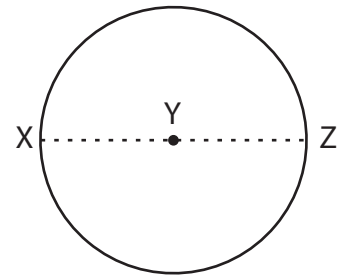


$$AB = 4 \text{ cm}$$

$$AC = \mathbf{8 \text{ cm}}$$

$$\text{Area} = \mathbf{50.24 \text{ cm}^2}$$

3)

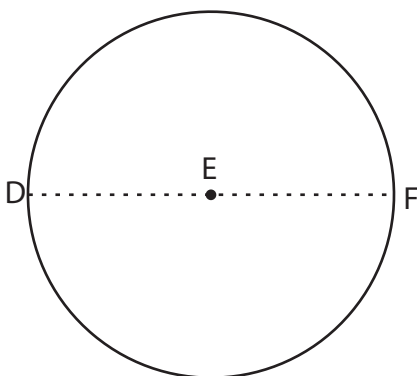


$$XZ = 6 \text{ m}$$

$$XY = \mathbf{3 \text{ m}}$$

$$\text{Area} = \mathbf{28.26 \text{ m}^2}$$

4)

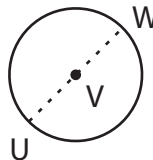


$$DF = 8.8 \text{ m}$$

$$EF = \mathbf{4.4 \text{ m}}$$

$$\text{Area} = \mathbf{60.79 \text{ m}^2}$$

5)

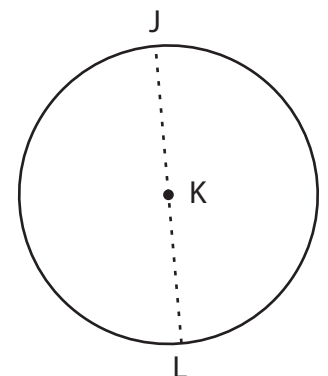


$$UW = 3 \text{ mm}$$

$$UV = \mathbf{1.5 \text{ mm}}$$

$$\text{Area} = \mathbf{7.07 \text{ mm}^2}$$

6)



$$KL = 3.5 \text{ cm}$$

$$JL = \mathbf{7 \text{ cm}}$$

$$\text{Area} = \mathbf{38.47 \text{ cm}^2}$$