



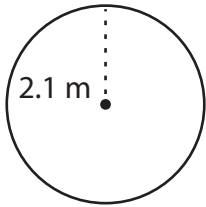
Area of Circles

Name _____

Score _____

AC:06

Example 1: Find the area of the circle.

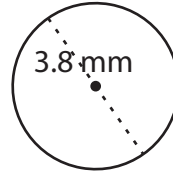


$$\text{Area of circle} = \pi r^2$$

$$\text{Radius } (r) = 2.1 \text{ m}$$

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

Example 2: Find the area of the circle.



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

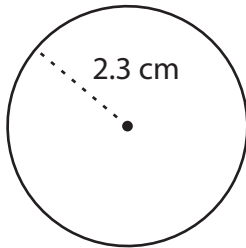
$$\text{Diameter } (d) = 2r ; r = \frac{d}{2}$$

$$\text{Diameter } (d) = 3.8 \text{ mm} ; r = 1.9 \text{ mm}$$

$$\begin{aligned} \text{Area} &= \pi \times 1.9^2 = \pi \times 3.61 \\ &= \mathbf{3.61\pi \text{ mm}^2} \end{aligned}$$

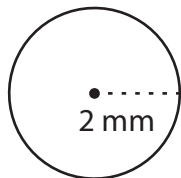
Find the area of each circle.

1)



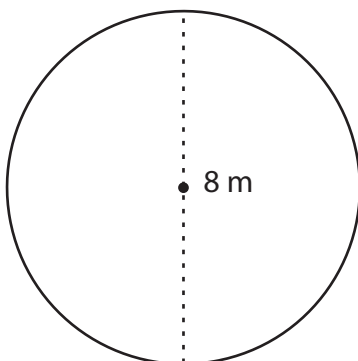
$$\text{Area} = \boxed{} \text{ cm}^2$$

2)



$$\text{Area} = \boxed{} \text{ mm}^2$$

3)



$$\text{Area} = \boxed{} \text{ m}^2$$

4) Radius = 13 mm

$$\text{Area} = \boxed{} \text{ mm}^2$$

5) Diameter = 17 cm

$$\text{Area} = \boxed{} \text{ cm}^2$$

6) Diameter = 24 mm

$$\text{Area} = \boxed{} \text{ mm}^2$$

7) Radius = 3 cm

$$\text{Area} = \boxed{} \text{ m}^2$$

8) Radius = 1.1 m

$$\text{Area} = \boxed{} \text{ m}^2$$



Area of Circles

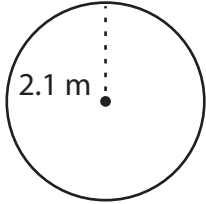
Name _____

Score _____

Answer key

AC:06

Example 1: Find the area of the circle.

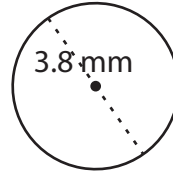


$$\text{Area of circle} = \pi r^2$$

$$\text{Radius (r)} = 2.1 \text{ m}$$

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

Example 2: Find the area of the circle.



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

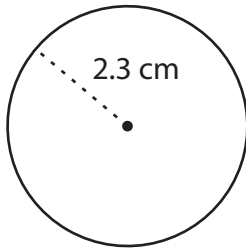
$$\text{Diameter (d)} = 2r ; r = \frac{d}{2}$$

$$\text{Diameter (d)} = 3.8 \text{ mm} ; r = 1.9 \text{ mm}$$

$$\begin{aligned}\text{Area} &= \pi \times 1.9^2 = \pi \times 3.61 \\ &= \mathbf{3.61\pi \text{ mm}^2}\end{aligned}$$

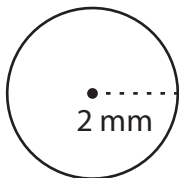
Find the area of each circle.

1)



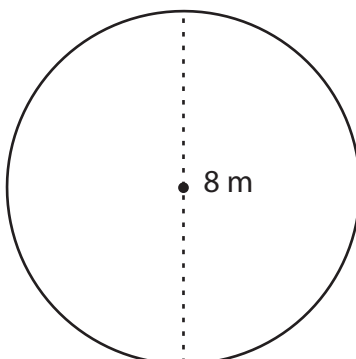
$$\text{Area} = \mathbf{5.29\pi} \text{ cm}^2$$

2)



$$\text{Area} = \mathbf{4\pi} \text{ mm}^2$$

3)



$$\text{Area} = \mathbf{16\pi} \text{ m}^2$$

4) Radius = 13 mm

$$\text{Area} = \mathbf{169\pi} \text{ mm}^2$$

5) Diameter = 17 cm

$$\text{Area} = \mathbf{72.25\pi} \text{ cm}^2$$

6) Diameter = 24 mm

$$\text{Area} = \mathbf{144\pi} \text{ mm}^2$$

7) Radius = 3 cm

$$\text{Area} = \mathbf{9\pi} \text{ m}^2$$

8) Radius = 1.1 m

$$\text{Area} = \mathbf{1.21\pi} \text{ m}^2$$