



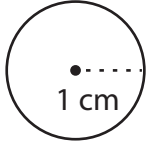
Area of Circles

Name _____

Score _____

AC:05

Example 1: Find the area of the circle.

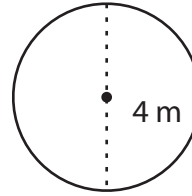


$$\text{Area of circle} = \pi r^2$$

$$\text{Radius (r)} = 1 \text{ cm}$$

$$\begin{aligned} \text{Area} &= \pi \times 1^2 \\ &= \pi \times 1 \\ &= \pi \text{ cm}^2 \end{aligned}$$

Example 2: Find the area of the circle.



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

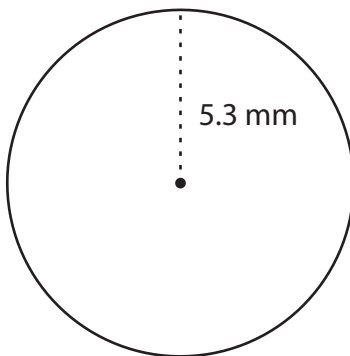
$$\text{Diameter (d)} = 2r ; r = \frac{d}{2}$$

$$\text{Diameter (d)} = 4 \text{ m} ; r = 2 \text{ m}$$

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

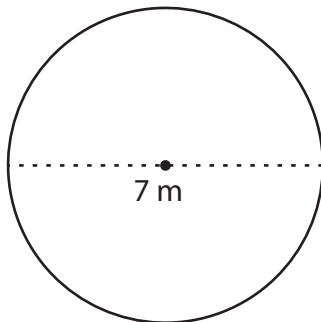
Find the area of each circle.

1)



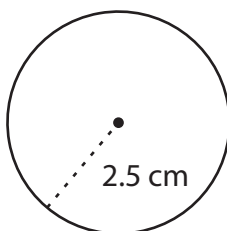
Area = mm²

2)



Area = m²

3)



Area = cm²

4)

Radius = 10 m

Area = m²

5)

Diameter = 22 cm

Area = cm²

6)

Radius = 6.5 mm

Area = mm²

7)

Diameter = 10.4 m

Area = m²

8)

Radius = 6 mm

Area = mm²



Area of Circles

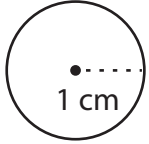
Name _____

Score _____

Answer key

AC:05

Example 1: Find the area of the circle.

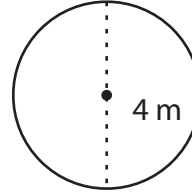


$$\text{Area of circle} = \pi r^2$$

$$\text{Radius (r)} = 1 \text{ cm}$$

$$\begin{aligned}\text{Area} &= \pi \times 1^2 \\ &= \pi \times 1 \\ &= \pi \text{ cm}^2\end{aligned}$$

Example 2: Find the area of the circle.



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

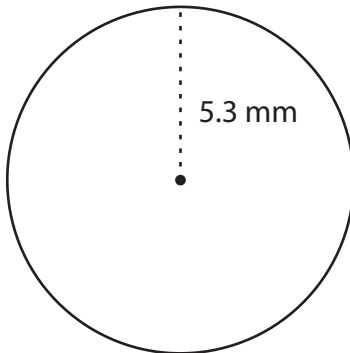
$$\text{Diameter (d)} = 2r ; r = \frac{d}{2}$$

$$\text{Diameter (d)} = 4 \text{ m} ; r = 2 \text{ m}$$

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

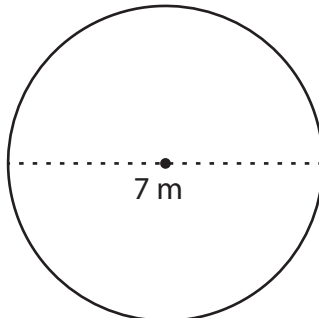
Find the area of each circle.

1)



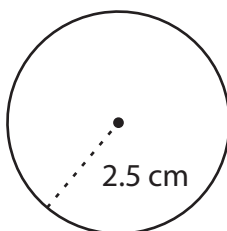
$$\text{Area} = \boxed{28.09\pi} \text{ mm}^2$$

2)



$$\text{Area} = \boxed{12.25\pi} \text{ m}^2$$

3)



$$\text{Area} = \boxed{6.25\pi} \text{ cm}^2$$

4) Radius = 10 m

$$\text{Area} = \boxed{100\pi} \text{ m}^2$$

5) Diameter = 22 cm

$$\text{Area} = \boxed{121\pi} \text{ cm}^2$$

6) Radius = 6.5 mm

$$\text{Area} = \boxed{42.25\pi} \text{ mm}^2$$

7) Diameter = 10.4 m

$$\text{Area} = \boxed{27.04\pi} \text{ m}^2$$

8) Radius = 6 mm

$$\text{Area} = \boxed{36\pi} \text{ mm}^2$$