



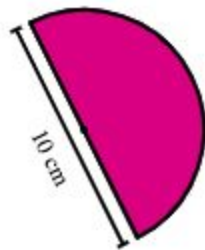
Radius and Diameter of Circle

FREE Worksheet - 2

Time: 15 minutes

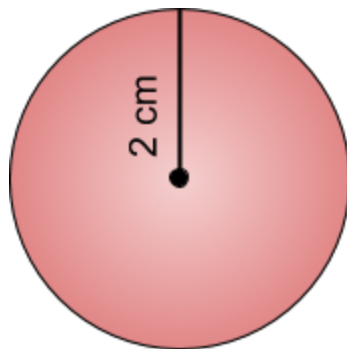
(Detailed solutions at the end)

1. A semicircular plate has a diameter of 10 cm. Find the radius of the plate.



Answer: _____ cm

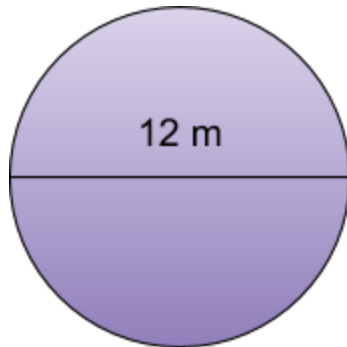
2. Find the diameter of the circle below. (Radius = 2 cm)



Answer: _____ cm

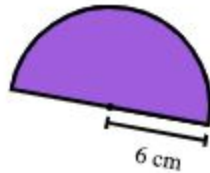


3. The diameter of a circle is 12 m. What is its radius?



Answer: _____m

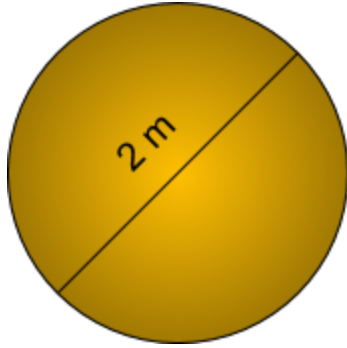
4. Nora cut a piece of paper into a semicircular disc as shown below. Find the diameter of the disc. (Radius = 6 cm)



Answer: _____cm



5. A round mirror has a diameter of 2 m. Find the radius of the mirror.



Answer: _____ m



SOLUTIONS

Problem 1

Given,

$$\text{Diameter of the semicircle} = 10 \text{ cm}$$

We know,

$$\text{Radius} = \text{Diameter} \div 2$$

Therefore,

$$\begin{aligned} \text{Radius} &= 10 \text{ cm} \div 2 \\ &= \mathbf{5 \text{ cm}} \end{aligned}$$

Problem 2

Given,

$$\text{Radius of the circle} = 2 \text{ cm}$$

We know,

$$\text{Diameter} = \text{Radius} \times 2$$

Therefore,

$$\begin{aligned} \text{Diameter} &= 2 \text{ cm} \times 2 \\ &= \mathbf{4 \text{ cm}} \end{aligned}$$



Problem 3

Given,

$$\text{Diameter of the circle} = 12 \text{ m}$$

We know,

$$\text{Radius} = \text{Diameter} \div 2$$

Therefore,

$$\begin{aligned} \text{Radius} &= 12 \text{ m} \div 2 \\ &= 6 \text{ m} \end{aligned}$$

Problem 4

Given,

$$\text{Radius of the semicircle} = 6 \text{ cm}$$

We know,

$$\text{Diameter} = \text{Radius} \times 2$$

Therefore,

$$\begin{aligned} \text{Diameter} &= 6 \text{ cm} \times 2 \\ &= \mathbf{12 \text{ cm}} \end{aligned}$$



Problem 5

Given,

$$\text{Diameter of the circle} = 2 \text{ m}$$

We know,

$$\text{Radius} = \text{Diameter} \div 2$$

Therefore,

$$\begin{aligned} \text{Radius} &= 2 \text{ m} \div 2 \\ &= \mathbf{1 \text{ m}} \end{aligned}$$