



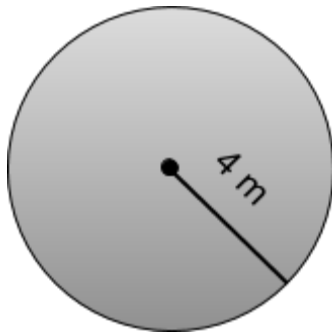
Radius and Diameter of Circle

FREE Worksheet - 4

Time: 15 minutes

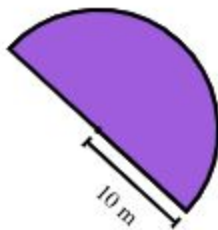
(Detailed solutions at the end)

1. A round mirror has a radius of 4 m. Find the diameter of the mirror.



Answer: _____m

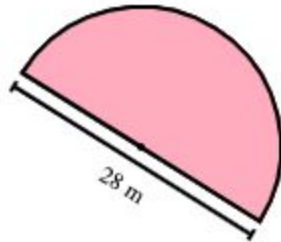
2. A stage shaped like a semicircle has a radius of 10 m. What is the diameter of the stage?



Answer: _____m

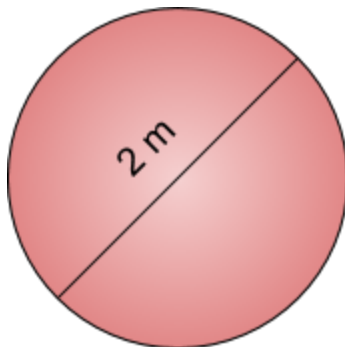


3. Find the radius of the semicircle below. (Diameter = 28 m)



Answer: _____m

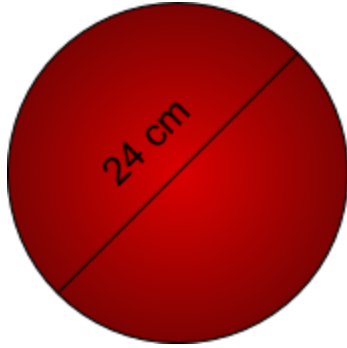
4. The diameter of a circle is 2 m. What is its radius?



Answer: _____m



5. Find the radius of the circle below. (Diameter = 24 cm)



Answer: _____ cm



SOLUTIONS

Problem 1

Given,

$$\text{Radius of the circle} = 4 \text{ m}$$

We know,

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

Therefore,

$$\begin{aligned} \text{Diameter} &= 4 \text{ m} \times 2 \\ &= \mathbf{8 \text{ m}} \end{aligned}$$

Problem 2

Given,

$$\text{Radius of the semicircle} = 10 \text{ m}$$

We know,

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

Therefore,

$$\begin{aligned} \text{Diameter} &= 10 \text{ m} \times 2 \\ &= \mathbf{20 \text{ m}} \end{aligned}$$

Problem 3

Given,



Diameter of the semicircle = 28 m

We know,

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

Therefore,

$$\begin{aligned}\text{Radius} &= 28 \text{ m} \div 2 \\ &= \mathbf{14 \text{ m}}\end{aligned}$$

Problem 4

Given,

Diameter of the circle = 2 m

We know,

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

Therefore,

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



Problem 5

Given,

$$\text{Diameter of the circle} = 24 \text{ cm}$$

We know,

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

Therefore,

$$\begin{aligned} \text{Radius} &= 24 \text{ cm} \div 2 \\ &= \mathbf{12 \text{ cm}} \end{aligned}$$