



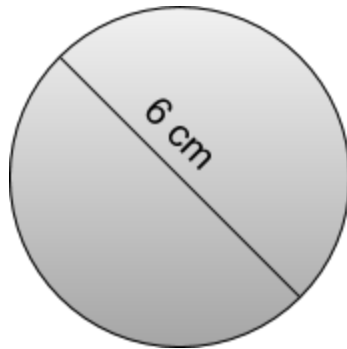
Radius and Diameter of Circle

FREE Worksheet - 5

Time: 15 minutes

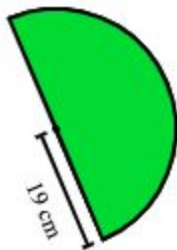
(Detailed solutions at the end)

1. The diameter of a circular mirror is 6 cm. Find the radius of the mirror.



Answer: _____ cm

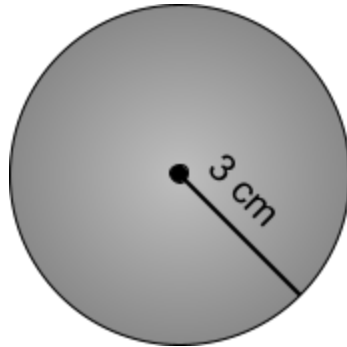
2. The radius of a semicircular mirror is 19 cm. Find the diameter of the mirror.



Answer: _____ cm

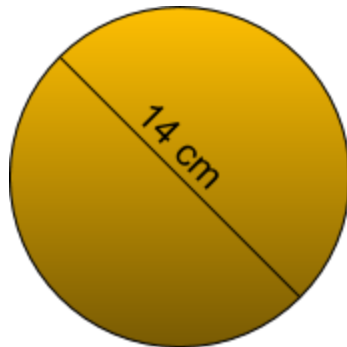


3. The radius of a circular mirror is 3 cm. Find the diameter of the mirror.



Answer: _____ cm

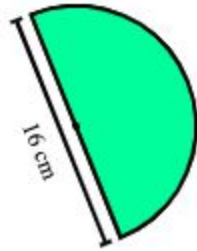
4. Lynn bent a piece of wire into a circle as shown below. What is the radius of the circle?
(Diameter = 14 cm)



Answer: _____ cm



5. A semicircular plate has a diameter of 16 cm. Find the radius of the plate.



Answer: _____ cm



SOLUTIONS

Problem 1

Given,

$$\text{Diameter of the circle} = 6 \text{ cm}$$

We know,

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

Therefore,

$$\begin{aligned} \text{Radius} &= 6 \text{ cm} \div 2 \\ &= \mathbf{3 \text{ cm}} \end{aligned}$$

Problem 2

Given,

$$\text{Radius of the semicircle} = 19 \text{ cm}$$

We know,

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

Therefore,

$$\begin{aligned} \text{Diameter} &= 19 \text{ cm} \times 2 \\ &= \mathbf{38 \text{ cm}} \end{aligned}$$

Problem 3

Given,

$$\text{Radius of the circle} = 3 \text{ cm}$$



We know,

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

Therefore,

$$\begin{aligned}\text{Diameter} &= 3 \text{ cm} \times 2 \\ &= \mathbf{6 \text{ cm}}\end{aligned}$$

Problem 4

Given,

$$\text{Diameter of the circle} = 14 \text{ cm}$$

We know,

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

Therefore,

$$\begin{aligned}\text{Radius} &= 14 \text{ cm} \div 2 \\ &= \mathbf{7 \text{ cm}}\end{aligned}$$

Problem 5

Given,

$$\text{Diameter of the semicircle} = 16 \text{ cm}$$

We know,

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

Therefore,

$$\begin{aligned}\text{Radius} &= 16 \text{ cm} \div 2 \\ &= \mathbf{8 \text{ cm}}\end{aligned}$$