



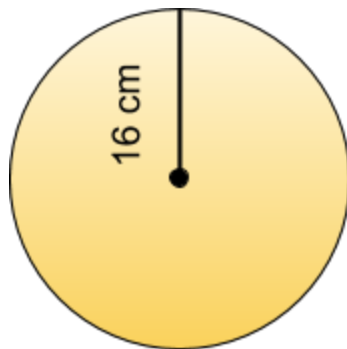
Circumference of Circle

FREE Worksheet - 5

Time: 15 minutes

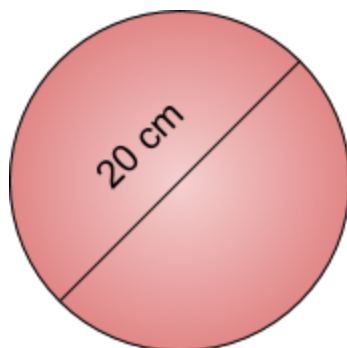
(Detailed solutions at the end)

1. Maria used a piece of string to form a circle as shown below. Find the length of the string she used rounded off to the nearest hundredth. (Radius = 16 cm $\pi = 22 / 7$)



Answer: _____ cm

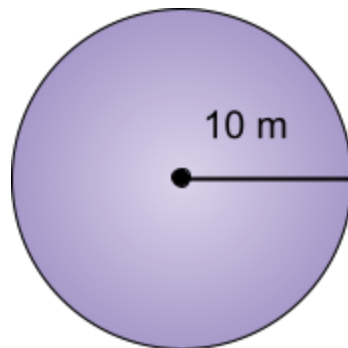
2. A circle has a diameter of 20 cm. Find the circumference of the circle. Round off your answer to the nearest hundredth. ($\pi = 22 / 7$)



Answer: _____ cm

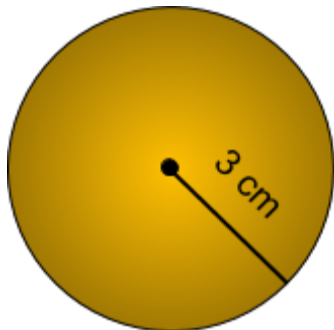


3. A round stage has a radius of 10 m. What is the circumference of the stage? Round off your answer to 2 decimal places. ($\pi = 22 / 7$)



Answer: _____m

4. A circle has a radius of 7 cm. Find the circumference of the circle. Round off your answer to the nearest hundredth. ($\pi = 22 / 7$)



Answer: _____cm



SOLUTIONS

Problem 1

We know,

$$\text{Circumference of a circle} = 2 \times \pi \times \text{Radius}$$

Given,

$$\text{Radius} = 16 \text{ cm}$$

$$\pi = 22 / 7$$

Therefore,

$$\begin{aligned} \text{Circumference} &= 2 \times 22 / 7 \times 16 \text{ cm} \\ &= \mathbf{100.57 \text{ cm}} \end{aligned}$$

Problem 2

We know,

$$\text{Circumference of a circle} = \pi \times \text{Diameter}$$

Given,

$$\text{Diameter} = 20 \text{ cm}$$

$$\pi = 22 / 7$$

Therefore,

$$\begin{aligned} \text{Circumference} &= 22 / 7 \times 20 \text{ cm} \\ &= \mathbf{62.86 \text{ cm}} \end{aligned}$$



Problem 3

We know,

$$\text{Circumference of a circle} = 2 \times \pi \times \text{Radius}$$

Given,

$$\text{Radius} = 10 \text{ m}$$

$$\pi = 22 / 7$$

Therefore,

$$\begin{aligned} \text{Circumference} &= 2 \times 22 / 7 \times 10 \text{ m} \\ &= \mathbf{62.86 \text{ m}} \end{aligned}$$

Problem 4

We know,

$$\text{Circumference of a circle} = 2 \times \pi \times \text{Radius}$$

Given,

$$\text{Radius} = 7 \text{ cm}$$

$$\pi = 22 / 7$$

Therefore,

$$\begin{aligned} \text{Circumference} &= 2 \times 22 / 7 \times 7 \text{ cm} \\ &= \mathbf{44 \text{ cm}} \end{aligned}$$