



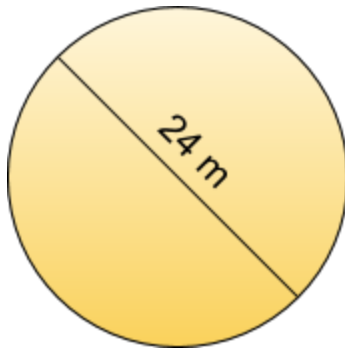
Circumference of Circle

FREE Worksheet - 3

Time: 15 minutes

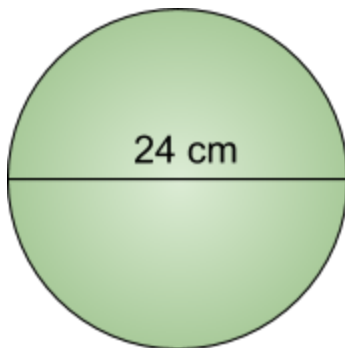
(Detailed solutions at the end)

1. Find the circumference of the circle below correct to 2 decimal places. (Diameter = 24 m, $\pi = 22 / 7$)



Answer: _____m

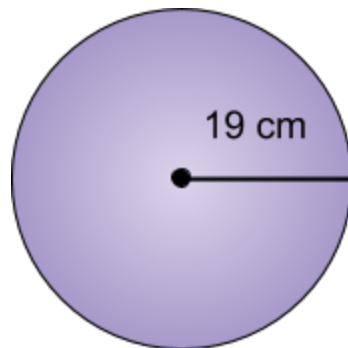
2. The diameter of a circular box is 20 cm. What is the circumference of the box? Round off your answer to 2 decimal places. ($\pi = 22 / 7$)



Answer: _____cm

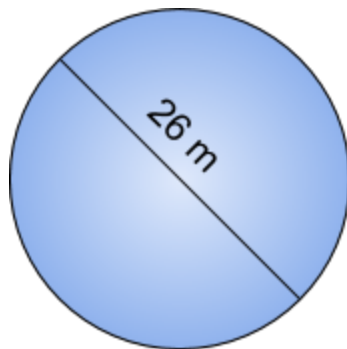


3. The radius of a circle is 19 cm. What is its circumference? Round off your answer to the nearest hundredth. ($\pi = 22 / 7$)



Answer: _____ cm

4. A round pond has a diameter of 26 m. Find the circumference of the pond. Give your answer correct to 2 decimal places. ($\pi = 22 / 7$)



Answer: _____ cm



SOLUTIONS

Problem 1

We know,

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

Given,

$$\text{Diameter} = 24 \text{ m}$$

$$\pi = 22 / 7$$

Therefore,

$$\begin{aligned} \text{Circumference} &= 22 / 7 \times 24 \text{ m} \\ &= \mathbf{75.43 \text{ m}} \end{aligned}$$

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,

$$\text{Radius} = 19 \text{ cm}$$

$$\pi = 22 / 7$$

Therefore,

$$\begin{aligned} \text{Circumference} &= 2 \times 22 / 7 \times 14 \text{ cm} \\ &= \mathbf{119.43 \text{ cm}} \end{aligned}$$

Problem 4

We know,

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

Given,

$$\text{Diameter} = 26 \text{ m}$$

$$\pi = 22 / 7$$

Therefore,

$$\begin{aligned} \text{Circumference} &= 22 / 7 \times 26 \text{ m} \\ &= \mathbf{81.71 \text{ m}} \end{aligned}$$