



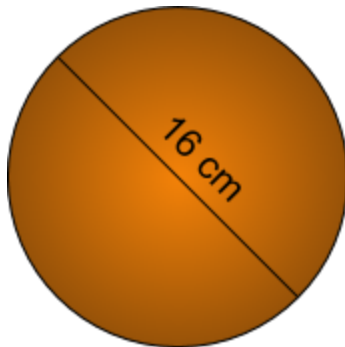
Circumference of Circle

FREE Worksheet - 4

Time: 15 minutes

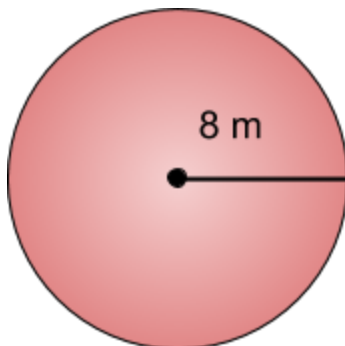
(Detailed solutions at the end)

1. The diameter of a circular box is 16 cm. What is the circumference of the box? Round off your answer to 2 decimal places. ($\pi = 22 / 7$)



Answer: _____ cm

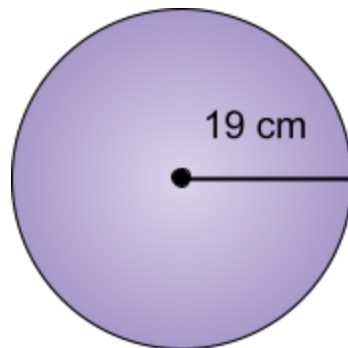
2. The radius of a circle is 8 m. What is its circumference? Round off your answer to the nearest hundredth. ($\pi = 22 / 7$)



Answer: _____ m

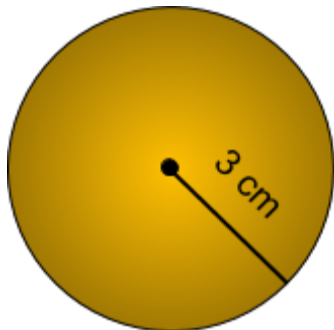


3. Indira bent a piece of wire into a ring as shown below. What is the circumference of the ring rounded off to 2 decimal places? (Radius = 19 cm, $\pi = 22 / 7$)



Answer: _____cm

4. Tara cut a piece of paper into a round disc as shown below. Find the circumference of the disc. Give your answer correct to 2 decimal places. (Radius = 3 cm, $\pi = 22 / 7$)



Answer: _____cm



SOLUTIONS

Problem 1

We know,

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

Given,

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

$$\pi = 22 / 7$$

Therefore,

$$\begin{aligned} \text{Circumference} &= 22 / 7 \times 16 \text{ cm} \\ &= \mathbf{50.29 \text{ cm}} \end{aligned}$$

Problem 2

We know,

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

Given,

$$\text{Radius} = 8 \text{ m}$$

$$\pi = 22 / 7$$

Therefore,

$$\begin{aligned} \text{Circumference} &= 2 \times 22 / 7 \times 8 \text{ m} \\ &= \mathbf{50.29 \text{ m}} \end{aligned}$$



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,

$$\begin{aligned} \text{Circumference} &= 2 \times 22 / 7 \times 19 \text{ cm} \\ &= \mathbf{119.43 \text{ cm}} \end{aligned}$$

Problem 4

We know,

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

Given,

$$\text{Radius} = 3 \text{ cm}$$

$$\pi = 22 / 7$$

Therefore,

$$\begin{aligned} \text{Circumference} &= 2 \times 22 / 7 \times 3 \text{ cm} \\ &= \mathbf{18.86 \text{ cm}} \end{aligned}$$