

Science

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(Chapter - 7) (Motion) (Exercises)
(Class - IX)

Question 1:

An athlete completes one round of circular track of diameter 200 m in 40 sec. What will be the distance covered and the displacement at the end of 2 minutes 20 sec?

Answer 1:

Time taken = 2 min 20 sec = 140 sec.

Radius, $r = 100$ m.

In 40 sec the athlete complete one round.

So, in 140 sec the athlete will complete $= 140 \div 40 = 3.5$ round.

\Rightarrow Distance covered in 140 sec $= 2\pi r \times 3.5 = 2 \times 22/7 \times 100 \times 3.5 = 2200$ m.

At the end of his motion, the athlete will be in the diametrically opposite position.

\Rightarrow Displacement = diameter = 200 m.

Question 2:

Joseph jogs from one end A to another end B of a straight 300 m road in 2 minutes and 30 sec and then turns around and jogs 100 m back to point C in another 1 minute. What are Joseph's average speeds and velocities in jogging (a) from A to B (b) from A to C?

Answer 2:

(a) For motion from A to B:

Distance covered = 300 m

Displacement = 300 m.

Time taken = 150 sec.

$$\begin{aligned}\text{We know that, Average speed} &= \text{Total distance covered} \div \text{Total time taken} \\ &= 300 \text{ m} \div 150 \text{ sec} = 2 \text{ ms}^{-1}\end{aligned}$$

$$\begin{aligned}\text{Average velocity} &= \text{Net displacement} \div \text{time taken} \\ &= 300 \text{ m} \div 150 \text{ sec} = 2 \text{ ms}^{-1}\end{aligned}$$

(b) For motion from A to C:

Distance covered $= 300 + 100 = 400$ m.

Displacement $= AB - CB = 300 - 100 = 200$ m.

Time taken $= 2.5 \text{ min} + 1 \text{ min} = 3.5 \text{ min} = 210 \text{ sec.}$

$$\begin{aligned}\text{Therefore, Average speed} &= \text{Total distance covered} \div \text{Total time taken} \\ &= 400 \div 210 = 1.90 \text{ ms}^{-1}.\end{aligned}$$

$$\begin{aligned}\text{Average velocity} &= \text{Net displacement} \div \text{time taken} \\ &= 200 \text{ m} \div 210 \text{ sec} = 0.952 \text{ ms}^{-1}.\end{aligned}$$

Question 3:

Abdul, while driving to school, computes the average speed for his trip to be 20 kmh^{-1} . On his return trip along the same route, there is less traffic and the average speed is 30 kmh^{-1} . What is the average speed of Abdul's trip?

Answer 3:

Let one side distance $= x$ km.

Time taken for forward trip at a speed of 20 km/h $=$ Distance / Speed $= x/20$ h.

Time taken in return trip at a speed of 30 km/h $= x/30$ h.

$$\text{Total time for the whole trip} = \frac{x}{20} + \frac{x}{30} = \frac{3x + 2x}{60} = \frac{5x}{60} \text{ h}$$

Total distance covered $= 2x$ km.

We know, Average speed $=$ Total distance \div Total time $= 2x \div (5x/60) = 24 \text{ kmh}^{-1}$.

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