

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.

We know that, $\text{Average speed} = \frac{\text{Total distance covered}}{\text{Total time taken}}$
 $= \frac{300 \text{ m}}{150 \text{ sec}} = 2 \text{ ms}^{-1}$
 $\text{Average velocity} = \frac{\text{Net displacement}}{\text{time taken}}$
 $= \frac{300 \text{ m}}{150 \text{ sec}} = 2 \text{ ms}^{-1}$

(b) For motion from A to C:

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

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

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

Therefore, $\text{Average speed} = \frac{\text{Total distance covered}}{\text{Total time taken}}$
 $= \frac{400}{210} = 1.90 \text{ ms}^{-1}$.
 $\text{Average velocity} = \frac{\text{Net displacement}}{\text{time taken}}$
 $= \frac{200 \text{ m}}{210 \text{ sec}} = 0.952 \text{ ms}^{-1}$.

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 $20 \text{ km/h} = \text{Distance} / \text{Speed} = x/20 \text{ h}$.

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

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

Total distance covered = $2x$ km.

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

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