

# 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  $20 \text{ kmh}^{-1}$ . On his return trip along the same route, there is less traffic and the average speed is  $30 \text{ kmh}^{-1}$ . 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  $20 \text{ km/h}$   $=$  Distance / Speed  $= x/20$  h.

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