

# 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.

⇒ 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.

⇒ 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  $20 \text{ kmh}^{-1}$ . 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  $20 \text{ km/h} = \text{Distance} / \text{Speed} = x/20 \text{ h}$ .

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

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

# Ncert Guide Question And Answer Of 1

**AN Whitehead**



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