

Physics

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(Chapter 3) (Motion in a straight line) (Exercises)

(Class 11)

Total time taken in the whole journey = 30 + 20 = 50 min

$$\text{Average velocity} = \frac{\text{Displacement}}{\text{Time}} = \frac{2.4}{\frac{1}{2}} = 5 \text{ km/h} \quad \dots \text{(a(i))}$$

$$\text{Average speed} = \frac{\text{Distance}}{\text{Time}} = \frac{2.5}{\frac{1}{2}} = 5 \text{ km/h} \quad \dots \text{(b(i))}$$

$$\text{Time} = 50 \text{ min} = \frac{5}{6} \text{ h}$$

Net displacement = 0

Total distance = 2.5 + 2.5 = 5 km

$$\text{Average velocity} = \frac{\text{Displacement}}{\text{Time}} = 0 \quad \dots \text{(a(ii))}$$

$$\text{Average speed} = \frac{\text{Distance}}{\text{Time}} = \frac{5}{\frac{5}{6}} = 6 \text{ km/h} \quad \dots \text{(b(ii))}$$

Speed of the man = 7.5 km/h

Distance travelled in first 30 min = 2.5 km

Distance travelled by the man (from market to home) in the next 10 min

$$= 7.5 \times \frac{10}{60} = 1.25 \text{ km}$$

Net displacement = 2.5 - 1.25 = 1.25 km

Total distance travelled = 2.5 + 1.25 = 3.75 km

$$\text{Average velocity} = \frac{1.25}{\left(\frac{40}{60}\right)} = \frac{1.25 \times 3}{2} = 1.875 \text{ km/h} \quad \dots \text{(a(iii))}$$

$$\text{Average speed} = \frac{3.75}{\left(\frac{40}{60}\right)} = 5.625 \text{ km/h} \quad \dots \text{(b(iii))}$$

Question 3.15:

In Exercises 3.13 and 3.14, we have carefully distinguished between average speed and magnitude of average velocity. No such distinction is necessary when we consider instantaneous speed and magnitude of velocity. The instantaneous speed is always equal to the magnitude of instantaneous velocity. Why?

Answer 3.15:

Instantaneous velocity is given by the first derivative of distance with respect to time i.e.,

$$V_{\text{in}} = \frac{dx}{dt}$$

Here, the time interval dt is so small that it is assumed that the particle does not change its direction of motion. As a result, both the total path length and magnitude of displacement become equal in this interval of time.

Therefore, instantaneous speed is always equal to instantaneous velocity.

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