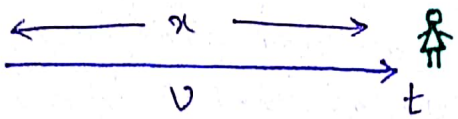
: Time Speed Distance :

24.08.2018

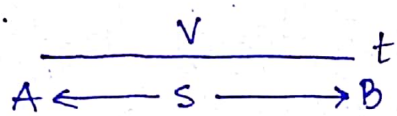
Section A (Formula Based) :

⇒ Important Formulas :

1. 

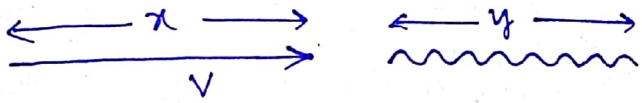
A train x m long crosses a person in t sec. When a train crosses a person, the distance cover by the train is the length of the train. If speed of train is V,

$$\therefore V = \frac{x}{t} \quad \text{or } t = \frac{x}{V} \quad \text{or } x = Vt .$$

2. 

A to B a terminal, distance is S. A car cover S distance in t time, the speed of the car is V,

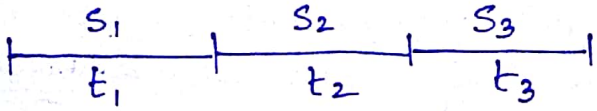
$$\therefore V = \frac{S}{t} \quad \text{or, } S = Vt, \text{ or } t = \frac{S}{V} .$$

3. 

A train x m long moving with a speed V crosses another train or bridge or platform having length, the distance cover by the train is (length of the train + length of the platform) / time.

$$\therefore V = \frac{x + y}{t} .$$

4. Avarage Speed :



A car covers S_1 dist in t_1, S_2 dist in t_2 times and S_3 dist in t_3 times. So, avarage

$$\text{Speed} = \frac{\text{Total Distance}}{\text{Total Time}}$$

$$\text{Avg} = \frac{S_1 + S_2 + S_3}{t_1 + t_2 + t_3}$$