

APTITUDE - SPEED AND DISTANCE

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Formulaes

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

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

$$\mathbf{P \text{ km/hr} = (P \times \frac{5}{18}) \text{m/sec}}$$

$$\mathbf{P \text{ m/sec} = (P \times \frac{18}{5}) \text{km/hr}}$$

If the ratio of the speeds of P and Q is p:q, then the ratio of the times taken by them to cover the same distance is

$$\frac{1}{p} : \frac{1}{q} \text{ or } q : p$$

The average speed of the journey is

$$\frac{2pq}{p+q} \text{ km/hr}$$

if a man covers a certain distance at p km/hr and an equal distance at q km/hr

Solved Examples

[Solved Examples](#)