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Aptitude :: Problems on Trains

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Exercise:: Problems on Trains - Important Formulas

- Problems on Trains Important Formulas
- Problems on Trains General Questions
- Problems on Trains Data Sufficiency 1
- Problems on Trains Data Sufficiency 2
- Problems on Trains Data Sufficiency 3
- 1. km/hr to m/s conversion:

$$a \text{ km/hr} = \left(a \times \frac{5}{18}\right) \text{m/s}.$$

2. m/s to km/hr conversion:

$$a \text{ m/s} = \left(a \times \frac{18}{5}\right) \text{km/hr}.$$

- 3. Formulas for finding Speed, Time and Distance
- 4. Time taken by a train of length *l* metres to pass a pole or standing man or a signal post is equal to the time taken by the train to cover *l* metres.
- 5. Time taken by a train of length l metres to pass a stationery object of length b metres is the time taken by the train to cover (l + b) metres.
- 6. Suppose two trains or two objects bodies are moving in the same direction at u m/s and v m/s, where u > v, then their relative speed is = (u v) m/s.

- 7. Suppose two trains or two objects bodies are moving in opposite directions at u m/s and v m/s, then their relative speed is = (u + v) m/s.
- 8. If two trains of length a metres and b metres are moving in opposite directions at u m/s and v m/s, then:

The time taken by the trains to cross each other $= \frac{(a+b)}{(u+v)}$ sec.

9. If two trains of length a metres and b metres are moving in the same direction at u m/s and v m/s, then:

The time taken by the faster train to cross the slower train = $\frac{(a+b)}{(u-v)}$ sec.

10. If two trains (or bodies) start at the same time from points A and B towards each other and after crossing they take a and b sec in reaching B and A respectively, then:

(A's speed) : (B's speed) = (b : a)

Read more:

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