



Aptitude :: Problems on Trains

Home » Aptitude » Problems on Trains » Formulas



Step 1: Click Here

Click Here To Begin

Esseps

Exercise : Problems on Trains - Formulas

☒ Problems on Trains - 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)



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- > Arithmetic
- > Data Interpretation

Verbal (English)

- > Verbal Ability
- > Verbal Test

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- > Logical
- > Verbal
- > Nonverbal

Programming

- > C Programming
- > C++
- > C#
- > Java

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- > GD
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