## **APTITUDE - TRAINS**

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## **Important Terms**

1. Speed in km/hr

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a \ km /hr = (a * 5 / 18) m/s.
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2. Speed in m/s

a m/s = (a \* 18/5) km/hr.

3. Time taken by a train of length L metres to pass a pole or a standing man or a signal post is equal to the time taken by the train to cover

L Metres.

4. Time taken by a train of length L metres to pass a stationary object of length b metres is the time taken by the train to cover

(L + b) metres.

5. Suppose two train or two bodies are moving in the same direction at u m/s and v m/s, where u > v, then their

relative speed = (u - v) m/s.

6. Suppose two trains or two bodies are moving in opposite directions at u m/s and v m/s, then their

relative speed = (u + v) m/s.

7. If two trains of length a metres and b metres are moving in opposite directions at u m/s and v m/s, then time taken by the trains to cross each other =

(a+b) / ( u+ v) sec.

8. If two train s 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 =

( a+b) / (u + v ) sec.

9. If two train ( 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 speed) : (B speed) = ( $\sqrt{b}$  :  $\sqrt{a}$ ).

## Solved Examples

Solved Examples aptitude\_trains.htm