

# TSD CLASS 1

**Question1-** Ram Walks at  $\frac{1}{3}$ rd his original speed & reaches school 20 minutes late . Find the time taken by Ram usually and time taken at the reduced speed ?

**Question2-** A kid goes from home to school at 10km/hr . He reaches school 15 minutes late , while coming back he increased his speed by 5km/hr and reaches home 25 minutes earlier than usual time . Find out the distance from Home to School ?

**Question3-** Travelling at  $\frac{3}{7}$ th of his usual speed , a person is 24 minutes late in reaching his office . Find the usual time taken by him to cover this distance .

**Question4-** A man walks at the rate of 40 kmph , he misses a train by 10 minutes . However , if he walks at the rate of 30kmph , he reaches the station 5 minutes before the departure of the train . Find the distance to the station ?

**Question5-** A train meets with an accident and travels at  $\frac{4}{7}$ th of its regular speed hereafter and hence it reaches its destination 36 minutes late . Had the accident occurred 30 kms further , the train would have been late by only 21 minutes . Find the regular speed of the train .

**Question6-** If Bismar Singh Cycles at 10km/hr then arrives at a certain place at 2 pm . If he Cycles at 15km/hr , he will arrive at same place at 10 AM . At what speed must he cycle to get there at 12:00 PM

**Question7-** Rajdhani Express ,after travelling a distance of 70 km , meets with an accident . As a result it loses 25% speed and reaches destination 37 minutes late . Had the accident been at 85 km from starting point, it would have been late by 25 minutes . What is the original speed of train?

**Question8-** Once Vineet starts chasing a girl . Ratio of speed of Vineet and girl is 7:4 and to catch that girl Vineet has to cover 60 meter extra than that of girl . Find total distance Vineet has to run to catch that girl .

**Question9-** A man can row upstream in 84 minutes . He can row the same distance in 9 minute less than he could row it in still water . How long will he take to row down with the stream ?

**Question10-** A man can walk up a moving up escalator in 30 seconds . The same man can walk down this moving up escalator in 90 seconds . Assume his walking speed is same upwards & downwards . How much time he will take to walk up the escalator when escalator is not moving ?

**Question11-** Ram escapes from his home at 2:00 PM and travels away at a speed of 30 km/ph . His mom realize the escape at 3:30 PM and start chasing at a speed of 40 kmph. At what time and distance she will catch Ram ?

**Question12-** A and B start simultaneously from E towards T . B can travel 7 times faster than A . After reaching T he turns back towards E and meets A at M . Given that distance between E and T is 8km . Find distance between E and M

**Question13-** A car overtakes a Bike at Motinagar at 9:00 AM . The car reaches CP at 11:00 AM and immediately turns back . It again meets the bike at Jhandewalan at 11:30 AM . at what time will the bike reach CP ?

**Question14-** Bus A left town M for another town N at 5:00 AM . at 6:30 Am another bus B left M for N and speed of the bus is 5kmph greater than that of A . At 9:30 PM on the same day the buses are 2 km apart . Find the speed of A

**Question15-** A and B start travelling at 16km/hr and 21 km/hr from two points P and Q respectively towards each other . When they met , it was observed that one of them has travelled 75 km more than the other .

a) Find the distance between P and Q

b) Find the distance between A and B 2 hours before they met each other

**Question16-** A and B start from two points P and Q respectively towards each other and met in 12 minutes . If A doubles his speed while B's speed becomes three times . Then which of the following could be possible time in which they can meet ?

a) 12 minutes b) 4 minutes c) 6 minutes d) 5 minutes

Elites Grid