**Time Speed Distance**

**Basic Problems**

1. A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?
2. The speed of a bus is 72 km/hr. The distance covered by the bus in 5 seconds is :
3. An airplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in 1 2/3 hours, it must travel at a speed of:
4. A man is walking at a speed of 10 kmph. After every km, he takes a rest for 5 minutes. How much time will he take to cover a distance of 5 km ?
5. A man completes a journey in 10 hours. He travels the first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.
6. A car travelling ⅔ of actual speed covers 150 km in 3 hours and 45 minutes Find the actual speed of the car.

**Average Speed**

1. P and Q are two towns. Navin covers the distance from P to Q on cycle at 22 km/hr. However, he covers the distance from Q to P on foot at 8 km/hr. His average speed during the whole journey is :
2. A man completes a certain journey by car. If he covered 30% of the distance at the speed of 20 kmph. 60% of the distance at 40km/h and the remaining of the distance at 10 kmph, what his average speed is:
3. A man completes 30km of a journey at the speed of 6 km/hr and the remaining 40km of the journey in 5 hrs. His average speed for the whole journey is:

**Relative Speed**

1. Two buses start at the same time from Chennai and Bangalore, which are 250 km apart. If the two buses travel towards each other, they meet after 1hr and if they travel in the same direction they meet after 5 hrs. What is the speed of the bus that starts from Chennai if it is known that the one which started from Chennai has more speed than the other one?
2. A theft is reported to a policeman. The thief starts running and the policeman chases him. When the policeman started chasing, the thief was at a distance of 250 meters. The thief and the policeman run at the speed of 8 km/h and 9 km/h respectively. Find the time the policeman will take to catch the thief.
3. Two buses start at the same time, one from P to Q and the other from Q to P. If both buses reach after 4 hours and 16 hours at Q and P respectively after they cross each other, what would be the ratio of speeds of the bus starting from P and that of the one starting from point Q?

**Reaching Early/late**

1. If a car runs at 45 km/hr, it reaches its destination late by 10 min but if runs at 60km/hr it is earlier by 5 mins. What is the correct time for the journey?
2. If a train runs at 40 kmph, it reaches its destination late by 11 minutes but if it runs at 50 kmph, it is late by 5 minutes only. The correct time for the train to complete its journey is

**Stoppages**

1. Excluding stoppages, the speed of a bus is 54 kmph and including stoppages, it is 45 kmph. For how many minutes does the bus stop per hour?