**Time, Speed and Distance**

**Basic Questions:**

1. How many seconds does Puja take to cover a distance of 500 m, if she runs at a speed of 30 km/hr?
2. What speed in kmph should a man walk to cover 1200m in 15 min?
3. Walking at the rate of 6 kmph a man covers a certain distance in 1 hr 50 mts running at a speed of 22 km/h the man will cover the same distance in?
4. If a man walks at 7 kmph instead of 5 kmph, he would have walked 10 km more. Then, what is the actual distance traveled by him?
5. Radha completed her journey in 8 hours. She covered half the distance at 40 km/hr and the rest at 60 km/hr. Find the total distance of the journey.
6. A car travels two-third of its actual speed and covers 150 km in 3 hours 45 minutes. Find the actual speed of the car.

**Average Speed**

1. A man covers 40 km of a journey at 8 km/h and the remaining 30 km of journey in 2 hrs. Find his average speed for his whole journey.
2. A person travels from New York to Washington at the rate of 45 miles per hour and comes back to New York at the rate of 55 miles per hour. What is his average speed for the whole journey?
3. An airplane flying 1000 km covers the first 200 km at the rate of 200 km/hr, the second 200 km at 400 km/hr, the third 200 km at 600 km / hr & last 200 km at the rate of 800 km/hr. Determine the average speed of the airplane.

**Relative Speed**

1. Two stations P and Q are 110 km apart on a straight track. One train starts from P at 7 a.m. and travels towards Q at 20 kmph. Another train starts from Q at 8 a.m. and travels towards P at a speed of 25 kmph. At what time will they meet?
2. Two towns P & Q are 275 km apart. A motorcycle rider starts from P towards Q at 8 a.m. at the speed of 25 km/hr. Another rider starts from Q towards P at 9 a.m. at the speed of 20 km/hr. Find at what time they will cross each other?
3. Two girls move in opposite directions, one from A to B and other from B to A. The girl from A reaches the destination in 16 hrs and girl from B reaches her destination in 25 hrs, after having met. If former's speed is 25 km/hr, what will be the speed of latter?

**Reaching Early/Late**

1. If a man walks at 5 km/h, he misses the train by 7 min. If he walks at 6 km/h, he reaches 5 min before the departure of the train. What is the distance of the station from the man’s home?
2. By walking at 4/5 of his usual speed, Mohan is 6 minutes late to his office. find his usual time to cover the distance.

**Stoppages**

1. Excluding stoppages, the speed of a bus is 45 kmph and including stoppages it is 36 kmph. For how many minutes does the bus stop per hour?