**TIME SPEED DISTANCE**

1. A car covers a distance of 744km in 12 hr what is the speed of a car

2. A car covers a distance of 1350km in 25hr what is the speed of the car in m/s?

3. A man walking at a speed of 10km/hr after every kilometre he takes a rest of 5min.How much time will he take to cover a distance of 5km?

4. A man travels 20km/hr speed and late to his office by 4minutes next day he his travels at 25km/hr and reaches his office 2minutes early. What is the distance between his home and office?

5. If a man increase his speed to 7/5 times of his original speed and reaches his office 20minutes before to fixed time then find the usual time taken by him

**PRACTICE QUESTIONS**

1. A man walking at the speed of 5km/hr crosses a bridge in 15min.The length of the bridge ( in meters)is

2. A car travelling at a speed of 40km/hr can complete a journey in 9h.How long will it takes to travel the same distance at 60km/hr?

3. A boy runs 20km in 2.5hr.How long will he takes to run 32km at double the previous speed?

4. Moving 6/7 of its usual speed a train is 10minutes late. Find its usual time to cover the journey

5. The distance between places A and B is 999km.A car leaves place A at 6am and runs at a speed of 55.5km/hr. The car stops on the way for 1hr 20minutes.It reaches B at what time

**PROBLEMS ON TRAIN**

1. A train is 125m long if the train takes 30 seconds to cross a tree by the railway line,then the speed of the train is (kmph)

2. A 120m long train is running at a speed of 90kmph it will cross a railway platform 230m long in (seconds)

3. A train travelling at a speed of 30m/s crosses a platform 600m long, in 30seconds. The length of train in(meters)

4. A train 150m long takes 30seconds to cross a bridge 500m long. How much time will the train take to cross a platform 370m long?

5. The distance between two stations A and B is 300km.A train leaves station A at the speed of 30kmph,at the same time another train departs from station B at the speed of 45kmph.What will be the distance of the points where both the trains meet from point A?

6. Two trains leave Patna for Delhi at 10am and 10.30am respectively and travel at 120kmph and 150kmph respectively. How many kilometres from Patna will the two trains meet?

**PRACTICE QUESTIONS**

1. A train moving at speed of 90 km/hr crosses a pole in 7 seconds. Find the length of the train. (in meter) **175 meters**

2. A train of length 200 meters crosses a man running at 10 km/hr in the same direction in 10 seconds. What is the speed of the train? **82 km/hr**

3. Two trains of length 140 meters and 166 meters are moving towards each other on parallel tracks at a speed of 50 km/hr and 60 km/hr respectively. In what time the trains will cross each other from the moment they meet? **10 seconds**

 4. Two trains of length 120 meters and 140 meters are moving in the same direction on parallel tracks at speed of 82 km/hr and 64 km/hr. In what time the first train will cross the second train? **52 seconds**

5. A train moving at 108 km/hr crosses a platform in 18 seconds and a man standing on the platform in 10 seconds. Find the length of the platform. **240 meters**

6. A train moves with a speed of 108 kmph. Its speed in metres per second **30 m/s**

7. A train 280 m long running with a speed of 63 km/hr will pass a tree in **16 sec**

**BOATS AND STREAM**

1. A boat moves at 8kmph in Still water if the speed of the stream is 2.1 kmph find the relative speed with which the boat travels upstream

2. A boat moves downstream at rate of 8kmph and upstream at 4kmph The speed of the boat in still water is?

3. A boat goes 40 km upstream in 8hours and 36 km downstream in 6hours.

The speed of the boat in still water is?

4. A man Swims downstream a distance of 15km in 1hour if the speed of the current is 5kmph the time taken by the man to swim the Same distance upstream is ?

5. Abhi rows upstream a distance of 28km in 4hours and rows a distance of 50km in 2hours the time taken to rows downstream distance of 44.8 km in Still Water, he will take?