**PROBLEMS ON TRAINS**

**Train Crosses a Stationary object (pole, post, signal, street light)**

1. A train running at the speed of 60 km/hr crosses a pole in 9 seconds. What is the length of the train?
2. A 300 m long train is running at 54 Kmph. how much time will it take to cross a signal post ?

**Train Crosses a Bridge/Platform/Tunnel**

1. The length of the platform, which a train 130 metres long and travelling at 45 km/hr can cross in 30 seconds, is:
2. How long will a 150 m long train running at a speed of 60 kmph take to cross a bridge of 300 m?
3. A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is 54 km/hr, what is the length of the platform?

**Relative Speed**

1. Two trains 140 m and 160 m long run at the speed of 60 kmph and 30 kmph respectively in opposite directions on parallel tracks. The time (in seconds) which they take to cross each other, is:
2. A train of length 110 meters is running at a speed of 60 kmph. In what time will it pass a man who is running at 6 kmph in the direction opposite to that in which the train is going?
3. Two trains are running in opposite directions in the same speed. The length of each train is 120 meters. If they cross each other in 12 seconds, the speed of each train (in km/hr) is
4. Two trains of equal length are running on parallel lines in the same direction at 46 km/hr and 36 km/hr. The faster train passes the slower train in 36 seconds. The length of each train is:
5. Train A, 600 mts long is running at 80 kmph will take how much time to cross a man sitting in another train which is 400 meters long, running at 64 kmph in the opposite direction?
6. Two trains, each 100 m long, moving in opposite directions, cross other in 8 sec. If one is moving twice as fast the other, then the speed of the faster train is?
7. The distance between two places A and B is 570 km. A train starts from A at 50 kmph at 6 am and another starts from B at 80 kmph at 7 am towards each other. At what time will they meet?
8. Two trains, one from Howrah to Patna and the other from Patna to Howrah, start simultaneously. After they meet, the trains reach their destinations after 9 hours and 16 hours respectively. The ratio of their speeds is?