1) A man travels 25km in 5hrs. What is his speed?

a) 5km/hr b) 25/18 m/s c) 10 km/hr d) both a and b

2) Person P travels at a speed of 72mps. How much distance (in km) he will cover in 4hrs?

3) A and B are moving with the speed of 40 kmph and 60kmph respectively and covering the same distance. What is the ratio of times of A and B?

4) A bike covers the distance of 54 km/hr. How many metres does he covers in 1 minute?

5) Find the distance travelled in 1 hour. If a person covers 42kms in 4 2/3hrs?

AVERAGE SPEED:

6) A man completes a certain journey by car. If he covered 30% of distance at 20 km/hr and 60% of distance at 40 km/hr and rest at 10 km/hr. Find the average speed?

7) Nikhil travels from his home to office at the speed of 40 km/hr and returned at 60 km/hr. Find the average speed of his entire journey?

8) If you travels at 10 km/hr you will be 20 minutes late, if you travels at 20 km/hr you will be 10 minutes early. What is the distance?

9) If you travel at the speed of 9kmph you will be 45mins late for the class and if you travel at the speed of 36kmph you will be 15 mins early for the class. What is the distance from your home to college?

10) If you travel at the speed of 20kmph you will be 40mins late for the class and if you travel at the speed of 30kmph you will be 10mins late for the class. What is the distance from your home to college?

11) If you travel at the speed of 20kmph you will reach the class at 10 AM and if you travel at the speed of 40kmph you will reach the class at 8 AM. What is the distance from your home to college?

12) Siva when he increases his speed from 24kmph to 30kmph, he takes 1 hour less than the usual time to cover a certain distance. What is the distance usually covered by him?

RELATIVE SPEED:

13) Two cities A and B are 100 km apart from each other. Person P travels from A and move towards B. Person Q starts from B and move towards A. After how much time they meet, if they travel at the speed of 40 km/hr and 60 km/hr.

14) A thief spots the policeman 100m away and starts to run. If the policeman also starts to run immediately. How far would the thief have run before getting caught by the police?

15) A and B cycles from Mumbai to Pune and Pune to Mumbai, a distance of 192km at 18km/hr and 14km/hr respectively. A reaches Pune and starts back for Mumbai. How far from Pune will he meet B?

PROBLEMS ON TRAINS:

16) A train of length 200m running with the speed of 54kmph. In how much time it will pass

A) A man?

B) A platform of length 300m?

C) Another train of length 300m travelling in opposite direction at the speed of 46kmph?

D) Another train of length 300m travelling in same direction at the speed of 44kmph?

17) A train of length 280m running with the speed of 65kmph, will pass an electric pole in how much time?

18) A train 130m long pass a pole in 6 sec. Find the speed of train in kmph?

19) A train of length 150m takes 40.5 seconds to cross a tunnel of 300m length. Find the speed of train in kmph?

20) Two trains 140m and 160m long running at the speed of 60kmph and 40kmph respectively on parallel tracks will cross each other in how much time if they are travelling in opposite direction?

21) Two trains 140m and 160m long running at the speed of 60kmph and 40kmph respectively on parallel tracks will cross each other in how much time if they are travelling in same direction?

22) A train of length 110m with a speed of 60kmph passes a person who is running at a speed of 6kmph in what time, if he is travelling in opposite direction?

23) A train of length 110m with a speed of 60kmph passes a person who is running at a speed of 6kmph in what time, if he is travelling in same direction?

24) A train passes a platform in 36 sec. If the same train passes a man standing on the platform in 20 sec then find the length of the platform, if the speed of the train is 54kmph?

25) A train passes a pole and bridge of length 264m in 8sec and 20sec respectively. What is the speed of the train in kmph ?

26) Two trains start at the same time from A and B and proceed towards B and A at 36kmph and 42kmph respectively. When they meet it is found that one train has moved 48km more than the other. What is the distance?

27) A and B two stations 400km apart. A train starts from A at 10:00 AM and travel towards B at 65kmph and another train starts from B at 10:00 AM and travel towards A at 35kmph. At what time do they meet?

28) A and B two stations 390km apart. A train starts from A at 10:00 AM and travel towards B at 65kmph another train starts from B at 11:00 AM and travel towards A at 35kmph. A t what time do they meet?

29) A man travels 360km in 4hrs. Partly by air, partly by train. The ratio of distance travelled by train to the distance travelled by air is 4:5. If the journey time is same. What is the speed of train?

30) A man travels 2/5th of his journey by bus, 11/20th of his journey by bike and remaining 2kms by walk. Find the total distance covered by him?

31) A person covers half of his journey at 40km/hr, one-third at 60 km/hr and rest of journey at 30km/hr. Find his average speed for whole journey?

32) Excluding stoppages, speed of the bus is 54kmph and including stoppage is 45kmph. For how many minutes does the bus stops per hour?

33) A bike travels from A to C via B, it was travelling at the speed of 72kmph, however while travelling it stops at B, then its speed becomes 60kmph. How many minutes does the bike stops in an hour?

34) A train travelling at 100kmph overtakes a bike travelling at 64kmph in 40 sec. Find the length of train?

35) Two trains of length 100m each moving in opposite direction cross each other in 8sec. If one is moving twice as fast as the other, then what is the speed of the faster train?

36) Two trains of equal length running in opposite direction pass a pole at 18sec and 12sec respectively. What is the time taken by them to cross each other?

BOATS AND STREAMS:

37) A boat running downstream covers a distance of 16kms in 2hrs. While for covering the same distance upstream, it takes 4 hours. What is the speed of boat in still water?

38) A man’s speed with the current is 15km/hr and the speed of the current is 2.5km/hr. The man’s speed against the current is:

39) A boat travels 64km in 4hrs going downstream. What is the timetaken by the boat to travel 32kms against the water if the speed of the stream is 4kmph?

40) A man can row 6kmph in still water. When the river is running at 1.2kmph, it takes him 1 hour to row to a place and back. What is the total distance travelled by him?

41) A man can row 7.5kmph in still water and he finds that it takes him twice as long to row up as to row down the river. Find the rate of stream?

RACES: