

## Time Speed & Distance

1. A man travels from City X to City Y. He covers half the distance by bike at an average speed of 40 km/hr. He covers the other half by car at an average speed of 60 km/hr. Find the average speed for the entire journey.

- A) 48 km/hr
- B) 46 km/hr
- C) 50 km/hr
- D) 52 km/hr

2. Two cars, P and Q, travel from City A to City B. The ratio of their speeds is 3:5. Find the ratio of the time taken by Car P and Car Q to reach City B.

- A) 5 : 3
- B) 3 : 5
- C) 2 : 7
- D) 7 : 2

3. A cyclist has to cover a distance of 90 km in 12 hours. If he covers half of

$\frac{2}{3}$

the journey in  $\frac{3}{4}$  rd of the total time, what should be his speed to cover the remaining distance in the time left?

- A) 10.75 km/hr
- B) 11.25 km/hr
- C) 15 km/hr
- D) 18 km/hr

4. The ratio of speeds of two bikes, X and Y, is 5 : 6. If Bike Y covers 270 km in 6 hours, find the speed of Bike X.

- A) 45 km/hr
- B) 37.5 km/hr
- C) 55 km/hr
- D) 60 km/hr

5. A bus moving at  $\frac{5}{6}$ th of its usual speed reaches its destination 12 minutes late. Find the usual time it takes to complete the journey. (In min)

- A) 50
- B) 60
- C) 72
- D) 84

6. Aman walks at  $\frac{4}{5}$ th of his usual speed

and takes 3 hours more to cover a certain distance than he would at his usual speed. Find the time taken by Aman to cover the distance at his usual speed.

- A) 10 hours
- B) 12 hours
- C) 15 hours
- D) 18 hours

7. A car travels from City X to City Y and back at a speed of 50 km/hr. However, if the car had traveled from X to Y at 70 km/hr and returned from Y to X at 35 km/hr, it would take 3 hours longer. Find the distance between City X and City Y.

- A) 1040 km
- B) 1500 km
- C) 1050 km
- D) 1800 km

8. A bus travels at a speed of 60 km/hr without any stops, but when it makes stops, its average speed reduces to 45 km/hr. Find the average number of minutes the bus stops per hour.

- A) 10 minutes    B) 12 minutes  
C) 15 minutes    D) 20 minutes

9. A worker walks from his home to the factory at 5 km/hr and reaches 12 minutes late. The next day, starting at the same time, he walks at 7 km/hr and reaches 18 minutes early. Find the distance between his home and the factory.

- A) 9.65 km    B) 8.75 km  
C) 6.25 km    D) 7.75 km

10. Rohan can run a 600 m race in 60 seconds, while Arjun takes 75 seconds to complete it. If Arjun gets a 150 m head start, by how many seconds will Rohan or Arjun win the race?

- A) 3.75 seconds    B) 5.25 seconds  
C) 6 seconds    D) 7 seconds

11. A person covers a certain distance on his bike at a speed of 45 km/hr and reaches his destination 12 minutes late. If he increases his speed to 60 km/hr, he reaches 8 minutes early. Find the distance he covered.

- A) 40 km    B) 42 km  
C) 45 km    D) 60 km

12. A man starts jogging at 12 km/hr. Five minutes later, another runner starts from the same point at a faster speed. 15 minutes after the second runner starts, he is still 180 meters behind the first man. Find the distance from the starting point where the second runner catches up and his speed.

- A) 15.28 km/hr    B) 14.75 km/hr  
C) 16.65 km/hr    D) 18.98 km/hr

13. A bike runs 40% faster than a bicycle. Both start moving from the same point and meet after covering a distance of 420 km. However, in the middle of the journey, the bike stops for 3 hours due to a breakdown.

Find the speed of the bike (in km/h).

- A) 42 km/h    B) 48 km/h  
C) 52 km/h    D) 56 km/h

14. A bus travels at an average speed of 60 km/h including stoppages and at 80 km/h excluding stoppages. Find the number of minutes the bus stops per hour.

- A) 10 minutes  
B) 12 minutes  
C) 15 minutes  
D) 18 minutes

**KEY:**

1-A, 2-A, 3-B, 4-B, 5-B, 6-B, 7-C, 8-C, 9-B, 10- A, 11-D, 12-A, 13-D, 14-C.