1. Express a speed of 18 km/h in meter per second. **[Airforce Group Y 2018]**

(a) 3 (b) 7
(c) 5 (d) 9

2. A car covers 400 m in 20 s. Find the average speed (in km/h) of the car. **[RRB ALP 2019]**

(a) 124 (b) 36
(c) 108 **(d) 72**

3. How much distance will a bus cover in 8 h, if it is moving with a uniform speed of 37 km/h? **[Allahabad Bank Clerk 2010]**

(a) 246 km (b) 289 km
(c) 296 km (d) 276 km
(e) None of these

4. At an average speed of 80 km/h Shatabdi Express reaches Ranchi from Kolkata in 7 h. Then, the distance between Kolkata and Ranchi is **[SSC CGL 2016]**

(a) 560 km (b) 506 km
(c) 560 m (d) 650 m

5. A person covers a certain distance in 6 h, if travels at 40 km/h. If he has to cover the same distance in 4 h, then his speed must be **[SSC MTS 2017]**

(a) 50 km/h (b) 80 km/h
(c) 70 km/h **(d) 60 km/h**

6. A man covered a distance of 96 km in 12 h by a bicycle. How much distance will he cover by a motorbike in 7h, if he rides the motorbike at six times the speed of the bicycle? **(CBC Clerk 2011)**

(a) 448 km **(b) 336 km**
(c) 316 km (d) 428 km
(e) None of the above

7. A man has to cover a distance of 6 km in 45 min. If he covers one-half of the distance in 2 rd time, what should be his speed to cover 3 the remaining distance in the remaining time?

(a) 12 km/h (b) 16 km/h
(c) 3 km/h (d) 8 km/h

8. A man walked at a speed of 4 km/h from point A to Band came back from point B to A at the speed of 6 km/h. What would be the ratio of the time taken by the man in walking from point A to B to that from point B to A? **[Corporation Bank PO 2009]**

(a) 5 : 3 (b) 2 : 3
(c) 2 : 1 **(d) 3 : 2**
(e) 4 : 3

9. A truck covers a distance of 360 km in 8 h. A car covers the same distance in 6 h. What is the respective ratio between the speeds of the truck and the car? **[IBPS Clerk 2012]**

(a) 3 : 5 **(b) 3 : 4**

Copyright © All Rights Reserved | https://www.spardha.guru
www.spardha.guru
No 8, 24th Block Manasi Nagar Beside of Bliss serviced Apartment, Mysuru, Karnataka 570029
info@spardha.guru
90711 54445, 90711 64446, 90711 74447

(c) 1 : 2 (d) 4 : 5
(e) None of these

10. A bus covers a distance of 300 km in 7 ½ h and another bus covers a distance of 450 km in 9 h. The ratio of their speeds will be **[RRB Group D 2012]**
(a) 2 : 3 (b) 4 : 3
(c) 4 : 5 (d) 8 : 9

11. A truck covers a distance of 640 km in 10 h. A car covers the same distance in 8 h. What is the respective ratio between the speed of the truck and the car? **[IBPS Clerk 2011]**
(a) 3 : 4 (b) 1 : 2
(c) 5 : 6 (d) 6 : 7
(e) None of these

12. A man wants to cover 50 km on his bicycle at a speed of 12.5 km/h. After every 12.5 km, he takes rest for 20 min. How long will he take to cover the whole distance?
(a) 5 h (b) 4 h 20 min
(c) 6 h (d) 5 h 20 min

13. Excluding stoppages, the speed of a bus is 40 km/h and including stoppages it is 30 km/h. For how many minutes did the bus stop per hour?
(a) 9 min (b) 10 min
(c) 12 min **(d) 15 min**

14. Ram and Rahim standing at a distance of 680 m, run towards each other at a speed of 8 m/s and 9 m/s respectively. After how long will they meet? **[RRB NTPC 2018]**
(a) 17 s (b) 24 s
(c) 40 s (d) 36 s

15. Two buses are moving towards each other with the speed of 20 km/h and 34 km/h respectively. What will be the distance between the two buses before one second they collide? **[SSC (102) 2018]**
(a) 21 m (b) 18 m
(c) 12 m **(d) 15 m**

16. A man travelled a distance of 61 km in 9 h. He travelled partly on foot at 4 km/h and partly on bicycle at 9 km/h. What is the distance (in km) travelled on foot? **[Delhi Police MTS 2017]**
(a) 13 (b) 14
(c) 15 **(d) 16**

17. A thief is noticed by a policeman from a distance of 200 m. The thief starts running and the policeman chases him. The thief and the policeman run at the rate of 10 km/h and 11 km/h, respectively. The distance between them after 6 min will be **[SSC MTS 2013]**
(a) 100 m (b) 180 m
(c) 150 m (d) 125 m

Copyright © All Rights Reserved | https://www.spardha.guru

18. A boy goes to school with a speed of 2 km/h and returns with a speed of 3 km/h. If he takes 2 h and 30 min to go to school and return, then what is the distance between his school and home?

[MP Patwari 2017]

(a) 6 km (b) 5 km
(c) 4 km **(d) 3 km**

19. A man travelled from a point A to Bat a rate of 25 km/h and walked back at a rate of 4 km/h. If the whole journey took 5 h 48 min, then distance between A and B is

[AFCAT 2017]

(a) 30 km (b) 24 km
(c) 20 km (d) 51.6 km

20. 50 trees are standing in a line such that distance between any two consecutive trees is same. A car takes 18 s to travel from 13th tree to 34th tree. How much time (in seconds) will it take to reach from 1st tree to 50th tree? **[SSC CPO 2017]**

(a) 42 (b) 42.85
(c) 45 (d) 49

21. A car moves at 72 km/h after repairing and moves at the speed of 54 km/h before repairing. It covers X distance in 6 h after repairing. How much time (in hours) will it take to cover 3X distance before repairing?

[SSC CHSL 2018]

(a) 20 **(b) 24**
(c) 18 (d) 21

22. Azhar can complete a journey in 10 h. He travels the first half of the journey at a speed of 21 km/h and the remaining at 24 km/h. Find the total distance (in km).

[RRB NTPC 2016]

(a) 234 **(b) 224**
(c) 225 (d) 232

23. The distance between two places can be covered in 3 ½ h at a speed of 62 km/h. If the speed is increased by 8 km/h, how much time would be saved?

[RRB ALP 2018]

(a) 24 min (b) 20 min
(c) 30 min (d) 15 min

24. Rajesh can walk at 5 m/s and cycle at 20 m/s. He takes 45 s to cover a distance of 600 m using a combination of the two modes of transport. How long did Rajesh cycle? **[UP Police Constable 2018]**

(a) 15 s (b) 20 s
(c) 25 s (d) 26 s

25. A person goes to a mall from his house on a cycle at 8 km/h and comes back to his house on a cycle at 6 km/h. If he takes 1 h 10 min in all, what is the distance between his house and the mall? **[SSC CPO 2019]**

(a) 8 km **(b) 4 km**
(c) 5 km (d) 6km

Copyright © All Rights Reserved | https://www.spardha.guru

26. Kiran swims in a 90 m long pool. He covers 180 m in 1 min by swimming from one end to the other and back along the same straight path. Find the average speed of Kiran. **(RRB Group D 2018)**

(a) 3 ms^{-1} (b) 180 ms^{-1}
(c) 0 ms^{-1} (d) 4 ms^{-1}

27. A car covers the first 39 km of its journey in 45 min and the remaining 25 km in 35 min. What is the average speed of the car? **[Punjab & Sind Bank PO 2011]**

(a) 40 km/h (b) 64 km/h
(c) 49 km/h **(d) 48 km/h**
(e) None of these

28. A truck covered first 150 km at a speed of 50 km an hour and then covered the remaining 150 km in 2 h. Find its average speed. **(SSC FCI 2018)**

(a) 63 km/h (b) 45 km/h
(c) 37 km/h **(d) 60 km/h**

29. A bus travels at an average speed of 50 km/h for 2 ½ h and then travels at a speed of 70 km/h for 1 ½ h. The average speed of the bus (in km/h) for entire journey is **(SSC CPO 2013)**

(a) 59.5 (b) 60
(c) 62.5 **(d) 57.5**

30. Puneet goes to his office at the speed of 60 km/h and return to his home at the speed of 90 km/h. What will be the average speed of Puneet for the whole journey? **(SSC (10+2) 2019)**

(a) 20 km/h (b) 25 km/h
(c) 72 km/h (d) 30 km/h

31. A bike goes a certain distance at 40 km/h and comes back the same distance at 24 km/h. What is the average speed for the total journey? **(SSC CGL 2017)**

(a) 32 km/h (b) 28 km/h
(c) 34 km/h **(d) 30 km/h**

32. A car travels at the speed of 50 km/h for the first half of the journey and at the speed of 60 km/h for the second half of the journey. What is the average speed of the car for the entire journey? **(RRB NTPC 2016)**

(a) 54.54 km/h (b) 36.36 km/h
(c) 50.5 km/h (d) 45.45 km/h

33. Suresh started his journey from P to Q by his bike at the speed of 40 km/h and then the same distance he travelled on his foot at the speed of 10 km/h from Q to R. Then, he returned from R to P via Qat the speed of 24 km/h. The average speed of the whole trip is **[IB Security Assist. 2017]**

(a) 18.5 km/h (b) 19.8 km/h
(c) 18.2 km/h **(d) 19.2 km/h**

Copyright © All Rights Reserved | https://www.spardha.guru
www.spardha.guru
No 8, 24th Block Manasi Nagar Beside of Bliss serviced Apartment, Mysuru, Karnataka 570029
info@spardha.guru
90711 54445, 90711 64446, 90711 74447

34. Bala travels first one-third of the total distance at the speed of 10 km/h and the next one-third distance at the speed of 20 km/h and the last one-third distance at the speed of 60 km/h. What is the average speed of Bala? **[IB Security Assist. 2017]**

(a) 18 km/h (b) 19 km/h
(c) 16 km/h (d) 12 km/h

35. A man travelled four equal distances of 3 km at speeds of 10, 20, 30 and 40 km/h respectively. What is his average speed (in km/h)? **[Delhi Police Constable 2017]**

(a) 14 **(b) 19.2**
(c) 22.8 (d) 16.8

36. A bus started its journey from Ramgarh and reached Devgarh in 44 min at its average speed of 50 km/h. If the average speed of the bus is increased by 5 km/h, how much time will it take to cover the same distance? **[Corporation Bank PO 2010]**

(a) 40 min (b) 38 min
(c) 36 min (d) 31 min
(e) 49 min

37. A truck covers a certain distance in 8 h at the speed of 63 km/h. What is the average speed of a car which travels a distance of 120 km more than the truck in the same time? **[UBI Clerk 2011]**

(a) 78 km/h (b) 72 km/h
(c) 84 km/h (d) 88 km/h
(e) None of these

38. A man covers a total distance of 100 km on bicycle. For the first 2 h, the speed was 20 km/h and for the rest of the journey, it came down to 10 km/h. The average speed will be **[SSC CGL 2016]**

(a) 12 ½ km/h (b) 13 km/h
(c) $15\frac{1}{8}$ km/h (d) 20 km/h

39. The average speed of a bus is three-fifth of the average speed of a car which covers 3250 km in 65 h. What is the average speed of the bus? **[Canara Bank PO 2010]**

(a) 30 km/h (b) 20 km/h
(c) 35 km/h (d) 36 km/h
(e) None of these

40. Average speed of a bus is 55 km/h. The average speed of a car is 26% more than that of the bus, then distance covered by car in 8 h is **[JTRB 2012]**

(a) 568.4 km (b) 563.6 km
(c) 548.6 km **(d) 554.4 km**
(e) None of these

41. Ramesh walked 6 km to reach the station from his house, then he boarded a train whose average speed was 60 km/h and thus the reached his destination. In this way he took a total time of 3 h. If the

Copyright © All Rights Reserved | https://www.spardha.guru

average speed of the entire journey was 32 km/h, then the average speed of walking is **[IB Security Assist. 2017]**

(a) 5 km/h (b) 8 km/h
(c) 2 km/h **(d) 4 km/h**

42. A smuggler Veerappan is spotted by a policeman from a distance of 200 m. When the policeman starts chasing, Veerappan also starts running. Assuming the speed of smuggler is 10 km/h and that of the policeman 12 km/h, how far will the smuggler have to run before he is caught? **[RRB Group D 2018]**

(a) 10 km (b) 2 km
(c) 1 km (d) 5 km

43. Two men A and B run 4 km race on a course 0.25 km round. If their speeds are in the ratio 5: 4, how often does the winner pass the another? **[CDS 2016 (II)]**

(a) Once (b) Twice
(c) Thrice (d) Four times

44. Two cars A and B start simultaneously from two different places and travel towards each other. They arrive at their destinations after 4 h and 6 h respectively. If the speed of car A is 48 km/h, then what is the speed of car B? **[MAT 2013]**

(a) 36 km/h (b) 40 km/h
(c) 32 km/h (d) 28 km/h

45. Anita goes to college at 20 km/h and reaches college 4 min late. Next time she goes at 25 km/h and reaches the college 2 min earlier than the scheduled time. What is the distance of her college? **[IB Security Assist. 2017]**

(a) 16 km (b) 12 km
(c) 15 km **(d) 10 km**

46. Shri X goes to his office by scooter at a speed of 30 km/h and reaches 6 min earlier. If he goes at a speed of 24 km/h, he reaches 6 min late. The distance of his office is **[SSC CGL 2011]**

(a) 20 km (b) 21 km
(c) 22 km **(d) 24 km**

47. Walking at a speed of 5 km/h, a man reaches his office 6 min late. Walking at 6 km/h, he reaches there 2 min early. The distance of his office is **[SSC MTS 2013]**

(a) 2 km (b) 3 km
(c) 4 km (d) 3.5 km

48. Walking at 3 km/h, Pintu reaches his school 5 min late. Next time he increases his speed by 1 km/h, then he will be 5 min early. The distance of Pintu's school from his house is **[SSC CGL 2011]**

(a) 1 ½ km **(b) 2 km**
(c) 2 ½ km (d) 5 km

Copyright © All Rights Reserved | https://www.spardha.guru

spardhaguru2022 Spardhaguru Current affairs Spardhaguru1
SpardhaGuru Spardha.guru www.spardha.guru
Vedic Mathematics

49. 1 A student goes to school at the rate of 2 ½ km/h and reaches 6 min late. Next time, he increases his speed by 1/2 km/h then, he reaches 10 min early. The distance (in km) between the school and his house is **[SSC CGL 2011]**

(a) 5 **(b) 4**
(c) 3 (d) 1

50. A starts from a place P to go to a place Q. A As same time, B starts from to P. If after meeting each other, A and B take 16 and 25 h more respectively to reach their destinations the ratio of their speeds is

(a) 3 : 2 **(b) 5 : 4**
(c) 9 : 4 (d) 4 : 5

Spardhaguru India Private Limited

Copyright © All Rights Reserved | https://www.spardha.guru

www.spardha.guru
No 8, 24th Block Manasi Nagar Beside of Bliss serviced Apartment, Mysuru, Karnataka 570029
info@spardha.guru
90711 54445, 90711 64446, 90711 74447