Time and Distance

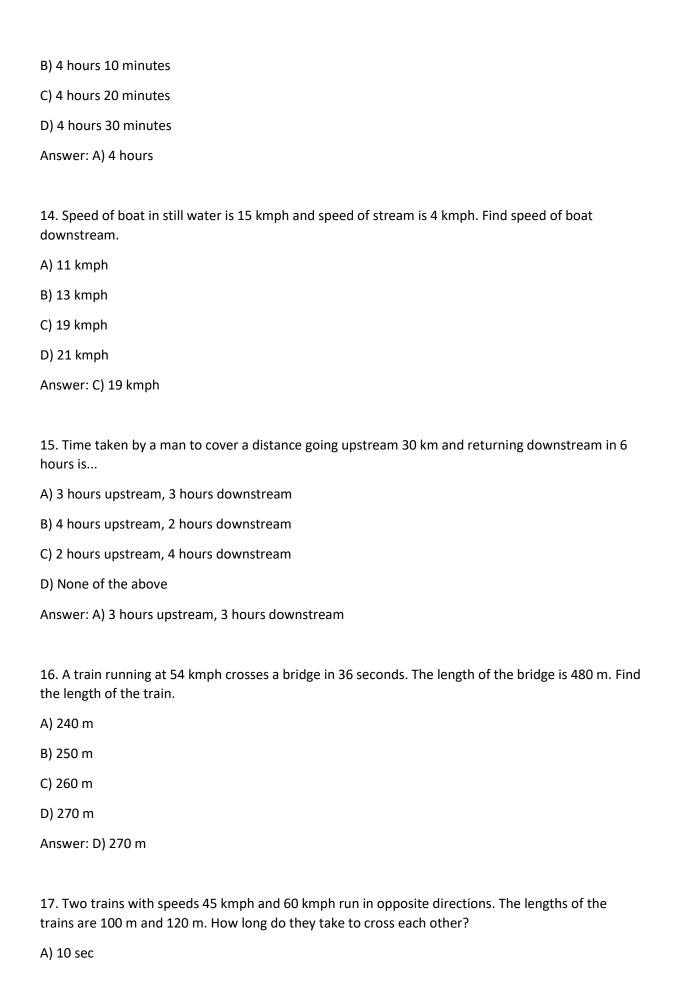- -

1. A man travelled first half of his journey at a speed of 60 kmph and the second half at 40 kmph. Find the average speed of the man.

A) 55 kmph

B) 57.5 kmph

C) 50 kmph

D) 52.5 kmph

Answer: C) 50 kmph

2. A man travelled 30% of his journey at a speed of 85 kmph and the rest at 33 kmph. Find his average speed throughout the journey.

A) 42.6 kmph

B) 44.6 kmph

C) 46.6 kmph

D) 48.6 kmph

Answer: D) 48.6 kmph

3. A train running at the speed of 60 kmph crosses a pole in 9 seconds. What is the length of the train?

A) 120 meters

B) 180 meters

C) 324 meters

D) 150 meters

Answer: C) 324 meters

4. A man covers 15 km in 1 hour 30 minutes. What is his speed?

A) 10 kmph

B) 9 kmph

C) 11 kmph

D) 12 kmph

Answer: A) 10 kmph

5. A car runs 240 km in 3 hours. What is its speed?

A) 70 kmph

B) 80 kmph

C) 60 kmph

D) 75 kmph

Answer: B) 80 kmph

6. How long will a car moving at 45 kmph take to cover 90 km?

A) 2 hours

B) 3 hours

C) 2.5 hours

D) 1 hour

Answer: A) 2 hours

7. A train 180 m long is running at a speed of 54 kmph. How long will it take to pass a platform 210 m long?

A) 15 sec

B) 20 sec

C) 25 sec

D) 30 sec

Answer: C) 25 sec

8. A man cycles 12 km at 15 kmph and 36 km at 9 kmph. Calculate average speed.

A) 10 kmph

B) 11 kmph

C) 12 kmph

D) 13 kmph

Answer: A) 10 kmph

9. A train traveling at 90 kmph crosses a pole in 20 seconds. What is the length of the train?

A) 400 m

B) 450 m

C) 500 m

D) 550 m

Answer: C) 500 m

10. Two trains each 150 m long, run on parallel tracks in opposite directions at speeds of 50 kmph and 45 kmph. How long will they take to cross each other?

A) 10 sec

B) 11 sec

C) 12 sec

D) 13 sec

Answer: B) 11 sec

11. A man walks at a speed of 4 kmph. How long will he take to cover 10 km?

A) 2 hours 15 minutes

B) 2 hours 30 minutes

C) 2 hours 45 minutes

D) 3 hours

Answer: B) 2 hours 30 minutes

12. The length of a train is 210 m and it crosses a pole in 15 seconds. Find its speed in kmph.

A) 50 kmph

B) 55 kmph

C) 60 kmph

D) 70 kmph

Answer: B) 50 kmph

13. Two stations are 300 km apart. Train A travels from station 1 to 2 at 75 kmph and train B travels from station 2 to 1 at 60 kmph. How long will they meet?

A) 4 hours

B) 4 hours 10 minutes

C) 4 hours 20 minutes

D) 4 hours 30 minutes

Answer: A) 4 hours

14. Speed of boat in still water is 15 kmph and speed of stream is 4 kmph. Find speed of boat downstream.

A) 11 kmph

B) 13 kmph

C) 19 kmph

D) 21 kmph

Answer: C) 19 kmph

15. Time taken by a man to cover a distance going upstream 30 km and returning downstream in 6 hours is...

A) 3 hours upstream, 3 hours downstream

B) 4 hours upstream, 2 hours downstream

C) 2 hours upstream, 4 hours downstream

D) None of the above

Answer: A) 3 hours upstream, 3 hours downstream

16. A train running at 54 kmph crosses a bridge in 36 seconds. The length of the bridge is 480 m. Find the length of the train.

A) 240 m

B) 250 m

C) 260 m

D) 270 m

Answer: D) 270 m

17. Two trains with speeds 45 kmph and 60 kmph run in opposite directions. The lengths of the trains are 100 m and 120 m. How long do they take to cross each other?

A) 10 sec

B) 12 sec

C) 15 sec

D) 20 sec

Answer: B) 12 sec

18. A man goes to Mumbai from Pune at 4 kmph and returns at 6 kmph. Find his average speed.

A) 4.8 kmph

B) 5 kmph

C) 4.5 kmph

D) 5.5 kmph

Answer: A) 4.8 kmph

19. A plane travels 600 km in 2 hours. Find its speed in kmph.

A) 250 kmph

B) 300 kmph

C) 350 kmph

D) 400 kmph

Answer: B) 300 kmph

20. When a man walks 3 kmph, he reaches late by 10 minutes, when he walks 5 kmph. He reaches 6 minutes earlier. Find the distance.

A) 3 km

B) 4 km

C) 5 km

D) 6 km

Answer: B) 4 km

21. A train traveling at 72 kmph crosses a platform 450 m long in 45 seconds. Find the length of the train.

A) 320 m

B) 350 m

C) 370 m

D) 400 m

Answer: A) 320 m

22. A car covers 360 km at an average speed of 60 kmph. How long does it take?

A) 5 hours

B) 6 hours

C) 7 hours

D) 8 hours

Answer: B) 6 hours

23. Distance between two places is 155 km. A man cycles to and fro between these places with average speed 15 kmph. How much time does he take?

A) 20 hr

B) 21 hr

C) 22 hr

D) 23 hr

Answer: C) 22 hr

24. A car travels 600 km at 50 kmph and 400 km at 60 kmph. Find average speed.

A) 54 kmph

B) 55 kmph

C) 56 kmph

D) 57 kmph

Answer: A) 54 kmph

25. A man runs half of the distance at 12 kmph and half at 15 kmph. Find average speed?

A) 13 kmph

B) 13.67 kmph

C) 14 kmph

D) 14.5 kmph

Answer: B) 13.67 kmph

26. A boat takes 3 hours to go 24 km upstream and 2 hours to return downstream. Find speed of the boat in still water?

A) 9 kmph

B) 10 kmph

C) 11 kmph

D) 12 kmph

Answer: B) 10 kmph

27. Speed of a boat in still water is 14 km/hr. It takes 16 hours to go 72 km upstream. Find speed of current?

A) 3 km/hr

B) 4 km/hr

C) 5 km/hr

D) 6 km/hr

Answer: A) 3 km/hr

28. A train of length 180 m runs at 54 km/hr. Calculate time taken to cross a bridge 210 m long?

A) 25 sec

B) 27 sec

C) 29 sec

D) 31 sec

Answer: B) 27 sec

29. Two persons A and B start from point X in opposite directions, run at speeds of 10 km/hr and 6 km/hr. When will they be 96 km apart?

A) 4 hr

B) 5 hr

C) 6 hr

D) 7 hr

Answer: A) 4 hr

30. A person walks 15 km at 3 km/hr and cycles the same distance at 15 km/hr. Find the average speed.

A) 7 km/hr

B) 8 km/hr

C) 9 km/hr

D) 10 km/hr

Answer: A) 7 km/hr

31. A car moves for 15 minutes at 30 km/hr and 30 minutes at 60 km/hr. What is the average speed for the entire journey?

A) 45 km/hr

B) 50 km/hr

C) 55 km/hr

D) 60 km/hr

Answer: C) 50 km/hr

32. Two trains runs towards each other on parallel tracks with speeds 54 km/h and 60 km/h respectively. What will be the speed of one train with respect to another?

A) 114 km/hr

B) 106 km/hr

C) 98 km/hr

D) 94 km/hr

Answer: A) 114 km/hr

33. A boat covers 5 km upstream in 30 minutes. If the speed of the boat is 10 km/hr, find the speed of the stream.

A) 5 km/hr

B) 4 km/hr

C) 6 km/hr

D) 7 km/hr

Answer: B) 4 km/hr

34. A train 250 meters long crosses a platform in 30 seconds at a speed of 60 km/hr. Find the length of the platform.

A) 250 m

B) 300 m

C) 350 m

D) 400 m

Answer: C) 300 m

35. Speed of a train is 72 km/hr. Find the time taken to cover 180 m.

A) 9 sec

B) 10 sec

C) 11 sec

D) 12 sec

Answer: B) 9 sec

36. A man covers the first half of his journey at 15 km/hr and the second half at 10 km/hr. What is his average speed?

A) 12 km/hr

B) 11.5 km/hr

C) 13 km/hr

D) 13.5 km/hr

Answer: A) 12 km/hr

37. Two boats take 8 hours and 16 hours respectively to travel a certain distance downstream and upstream. Speed of the stream is 6 km/hr, Find the speed of the boat in still water?

A) 8 km/hr

B) 9 km/hr

C) 10 km/hr

D) 11 km/hr

Answer: C) 10 km/hr

38. A person can row at 20 km/hr in still water and the stream flows at 6 km/hr. What is the speed of the boat upstream?

A) 14 km/hr

B) 15 km/hr

C) 16 km/hr

D) 17 km/hr

Answer: A) 14 km/hr

39. Length of a train running at 30 m/s which crosses a pole in 15 seconds is:

A) 300 m

B) 320 m

C) 350 m

D) 400 m

Answer: A) 450 m

40. Two trains 300 meters long and 360 meters long cross each other in 30 seconds. If their speeds are in the ratio 3 : 4, find the speed of the faster train.

A) 60 km/hr

B) 72 km/hr

C) 70 km/hr

D) 80 km/hr

Answer: B) 72 km/hr

41. Speed of a train running at 55 km/h is:

A) 15 m/s

B) 16 m/s

C) 17 m/s

D) 18 m/s

Answer: C) 15.27 m/s

42. A man travels 20 km at 6 km/hr and 15 km at 3 km/hr, what is the average speed?

A) 4 km/hr

B) 5 km/hr

C) 5.5 km/hr

D) 6 km/hr

Answer: B) 4.8 km/hr

43. Two trains are running in opposite directions at speeds 60 km/hr and 45 km/hr respectively. How fast are they approaching each other?

A) 105 km/hr

B) 105 m/s

C) 32 km/hr

D) 30 km/hr

Answer: A) 105 km/hr

44. A boat takes 2 hours to go 36 km upstream and 1.5 hours to come back to the starting point. Find the speed of the boat in still water.

A) 15 km/hr

B) 18 km/hr

C) 12 km/hr

D) 20 km/hr

Answer: A) 15 km/hr

45. A boat takes 3 hours to go 30 km upstream and 2 hours to return downstream. Find the speed of the stream.

A) 2 km/hr

B) 3 km/hr

C) 4 km/hr

D) 5 km/hr

Answer: B) 3 km/hr

46. Two trains, 100 m and 150 m long, run in opposite directions and cross each other in 10 seconds. The speed of the slower train is 30 km/hr. Find the speed of the other train.

A) 36 km/hr

B) 42 km/hr

C) 48 km/hr

D) 54 km/hr

Answer: A) 36 km/hr

47. A regular passenger train covers the distance between two stations 50 km apart in 30 minutes. Find the speed of the train in km/hr.

A) 100 km/hr

B) 110 km/hr

C) 120 km/hr

D) 130 km/hr

Answer: A) 100 km/hr

48. A man travels 40 km at 20 km/hr and 40 km at 60 km/hr. Find the average speed.

A) 30 km/hr

B) 40 km/hr

C) 45 km/hr

D) 50 km/hr

Answer: B) 30 km/hr

49. Length of a train crossing a pole in 10 seconds at a speed of 72 km/hr is:

A) 200 m

B) 210 m

C) 220 m

D) 230 m

Answer: A) 200 m

50. A man rowing at 24 km/hr in still water can row at 15 km/hr against the current. Find the speed of the stream.

A) 4.5 km/hr

B) 5 km/hr

C) 5.5 km/hr

D) 6 km/hr

Answer: A) 4.5 km/hr

51. A train 120 m long crosses a bridge in 30 seconds moving at 72 km/hr. What is the length of the bridge?

A) 400 m

B) 380 m

C) 360 m

D) 340 m

Answer: B) 380 m

52. A man walks at 5 km/hr. How long will he take to cover 25 km?

A) 4 hours

B) 5 hours

C) 6 hours

D) 7 hours

Answer: B) 5 hours

53. Two trains 120 m and 150 m long run in opposite directions at speeds 60 km/hr and 45 km/hr respectively. How long do they take to cross each other?

A) 15 sec

B) 18 sec

C) 20 sec

D) 24 sec

Answer: B) 18 seconds

54. A car travels 200 km at 50 km/hr and 300 km at 60 km/hr. Find average speed for the whole journey.

A) 55 km/hr

B) 55.59 km/hr

C) 56 km/hr

D) 57 km/hr

Answer: B) 55.59 km/hr

55. The distance between two stations is 480 km. Two trains start simultaneously from these stations and travel towards each other at 60 km/hr and 40 km/hr respectively. After how much time will the two trains meet?

A) 4 hours

B) 5 hours

C) 6 hours

D) 8 hours

Answer: A) 4 hours

56. A train of length 125 m takes 12 seconds to cross a pole. Find its speed.

A) 37.5 km/hr

B) 38.5 km/hr

C) 39.5 km/hr

D) 40 km/hr

Answer: A) 37.5 km/hr

57. A car travels at 60 km/hr for 1 hour and 30 minutes and then at 80 km/hr for the next 2 hours. What is the average speed?

A) 73.3 km/hr

B) 75 km/hr

C) 76.7 km/hr

D) 80 km/hr

Answer: A) 73.3 km/hr

58. A train is moving at 90 km/hr. It crosses a platform of length 150 m in 20 seconds. What is the length of the train?

A) 150 m

B) 200 m

C) 250 m

D) 300 m

Answer: B) 200 m

59. A man walks 6 km at 3 km/hr and then cycles 8 km at 12 km/hr. Find average speed for whole journey.

A) 5 km/hr

B) 6 km/hr

C) 7 km/hr

D) 8 km/hr

Answer: A) 5 km/hr

60. Two trains on parallel tracks are moving in the same direction, one at 60 km/hr and the other at 90 km/hr. The length of the faster train is 150 m and it crosses the slower train in 18 seconds. Find length of the slower train.

A) 175 m

B) 160 m

C) 200 m

D) 250 m

Answer: C) 200 m

61. An aeroplane flying at 180 km/hr covers a distance of 1500 km. What is the time taken?

A) 8 hr

B) 8.5 hr

C) 8.3 hr

D) 7.5 hr

Answer: A) 8 hr

62. Two trains moving in opposite directions cross a bridge 350 m long in 30 seconds with speeds 72 km/hr and 54 km/hr. Find the length of shorter train.

A) 170 m

B) 170.5 m

C) 180 m

D) 200 m

Answer: C) 180 m

63. A man rows downstream at 15 km/hr and upstream at 5 km/hr. What is the speed of the stream?

A) 2.5 km/hr

B) 3 km/hr

C) 5 km/hr

D) 7.5 km/hr

Answer: A) 5 km/hr

64. A car travels 240 km at 30 km/hr and 120 km at 60 km/hr. Find average speed.

A) 32 km/hr

B) 35 km/hr

C) 40 km/hr

D) 45 km/hr

Answer: A) 40 km/hr

65. A car travels at 40 km/hr and covers 30 km. How long will it take?

A) 30 minutes

B) 45 minutes

C) 1 hour

D) 1 hour 15 minutes

Answer: C) 45 minutes

66. Two trains run in opposite directions at 72 km/hr and 54 km/hr. Lengths are 210 m and 150 m respectively. What time will they take to cross each other?
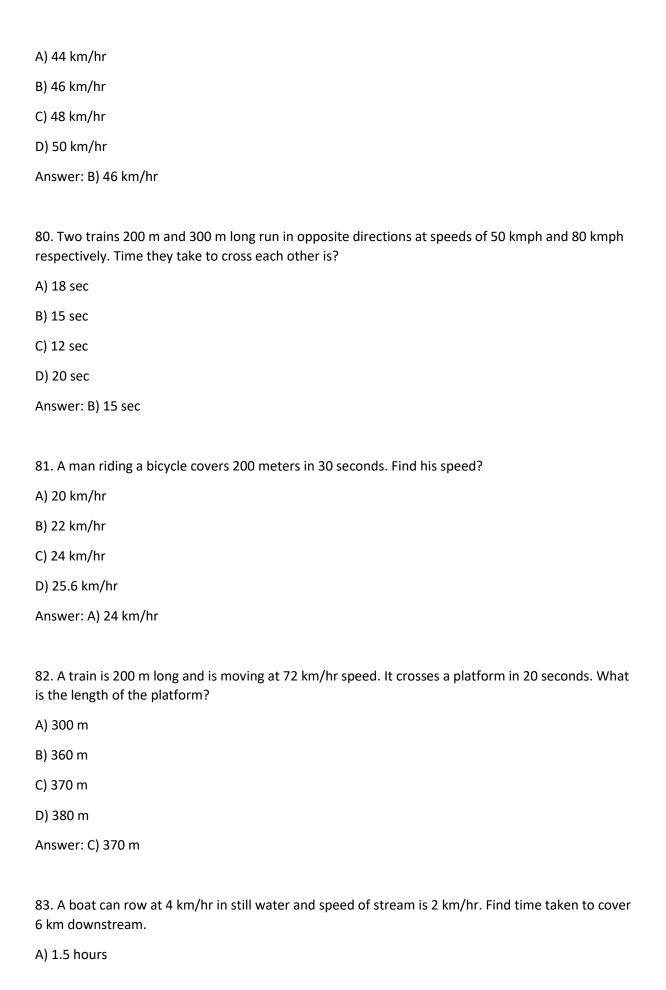
A) 19 sec

B) 20 sec

C) 21 sec

D) 22 sec

Answer: A) 19 sec

67. Two cars start simultaneously from two points 120 km apart and drive towards each other. Speeds 50 km/hr, 20 km/hr. How much distance of 120 km is covered by faster car before meeting?

A) 80 km

B) 85 km

C) 90 km

D) 100 km

Answer: A) 80 km

68. A boat's speed in still water is 14 km/hr takes 3 hours to row 24 km upstream. Find speed of the stream.

A) 4 km/hr

B) 5 km/hr

C) 6 km/hr

D) 7 km/hr

Answer: A) 6 km/hr

69. Two trains start at the same time from stations A and B 240 km apart and travel towards each other with speeds 60 km/hr and 80 km/hr. Find time when they meet.

A) 1.5 hrs

B) 1.75 hrs

C) 2 hrs

D) 2.5 hrs

Answer: A) 1.5 hrs

70. A man travels 48 km at 6 km/hr and returns at 8 km/hr. What is his average speed?

A) 6.6 km/hr

B) 6.9 km/hr

C) 7.0 km/hr

D) 7.5 km/hr

Answer: A) 6.86 km/hr

71. Two trains run on parallel tracks in the same direction at speeds 60 km/hr and 50 km/hr respectively. Lengths of trains are 150 m and 180 m. Find time taken to cross each other.

A) 30 sec

B) 27 sec

C) 26 sec

D) 25 sec

Answer: A) 30 sec

72. A train is moving at 81 km/hr. How much kg/h will it travel in 1 minute?

A) 1350 m

B) 1250 m

C) 1150 m

D) 1050 m

Answer: A) 1350 m

73. A cyclist covers a distance of 30 km at 15 km/hr in 2 hours and 40 minutes. How much time is he late?

A) 20 minutes

B) 25 minutes

C) 15 minutes

D) 18 minutes

Answer: A) 20 minutes

74. A boat rows upstream in 3 hours and rows downstream in 2 hours. Upstream speed is 10 km/hr. Find downstream speed.

A) 12 km/hr

B) 14 km/hr

C) 15 km/hr

D) 16 km/hr

Answer: C) 15 km/hr

75. A train 120 m long takes 20 seconds to cross a telegraph post. What is the speed of the train?

A) 18 km/hr

B) 24 km/hr

C) 28 km/hr

D) 30 km/hr

Answer: B) 21.6 km/hr

76. A cyclist covers 30 km at a speed of 30 km/hr on a circular track of radius 4 km. How many rounds does he complete?

A) 3

B) 2

C) 4

D) 5

Answer: A) 2.39 (approx 3 rounds)

77. Two trains of lengths 150 m and 250 m moving in opposite directions cross each other in 24 seconds. Sum of speeds is 75 km/hr. Find speed of slower train.

A) 33.75 km/hr

B) 27.5 km/hr

C) 35.5 km/hr

D) 37.5 km/hr

Answer: B) 27.5 km/hr

78. Two persons on opposite ends start walking towards each other at speeds 5 km/hr and 5 km/hr and meet. They continue walking to other's starting points and immediately turn back. When they meet the second time, one has walked 12 km more than the other. Find the length of the track.

A) 21 km

B) 22 km

C) 20 km

D) 23 km

Answer: A) 21 km

79. A train travels 360 km in 4 hours and returns in 5 hours. What is the average speed?

A) 44 km/hr

B) 46 km/hr

C) 48 km/hr

D) 50 km/hr

Answer: B) 46 km/hr

80. Two trains 200 m and 300 m long run in opposite directions at speeds of 50 kmph and 80 kmph respectively. Time they take to cross each other is?

A) 18 sec

B) 15 sec

C) 12 sec

D) 20 sec

Answer: B) 15 sec

81. A man riding a bicycle covers 200 meters in 30 seconds. Find his speed?

A) 20 km/hr

B) 22 km/hr

C) 24 km/hr

D) 25.6 km/hr

Answer: A) 24 km/hr

82. A train is 200 m long and is moving at 72 km/hr speed. It crosses a platform in 20 seconds. What is the length of the platform?

A) 300 m

B) 360 m

C) 370 m

D) 380 m

Answer: C) 370 m

83. A boat can row at 4 km/hr in still water and speed of stream is 2 km/hr. Find time taken to cover 6 km downstream.

A) 1.5 hours

B) 1 hour

C) 2 hours

D) 3 hours

Answer: B) 1 hour

84. A man cycles at 20 km/hr and returns at 30 km/hr. What is the average speed?

A) 25 km/hr

B) 21 km/hr

C) 22 km/hr

D) 24 km/hr

Answer: B) 24 km/hr

85. A train crosses 200 m long bridge in 30 seconds at speed of 54 kmph. Find the length of the train.

A) 250 m

B) 270 m

C) 280 m

D) 300 m

Answer: B) 250 m

86. A train takes 20 seconds to pass a man who is running in the same direction at 12 km/hr speed. The speed of the train is 72 km/hr. Find the length of train?

A) 130 m

B) 120 m

C) 125 m

D) 135 m

Answer: B) 115 m

87. Two trains start simultaneously from two points 300 km apart and travel towards each other at speeds 90 km/hr and 60 km/hr, respectively. How much time will they take to meet?

A) 2 hours

B) 1.5 hours

C) 1.7 hours

D) 1.8 hours

Answer: B) 2 hours

88. A train 300 m long traveling at 90 km/hr takes how much time to cross a platform of length 400 meters?

A) 30 sec

B) 32 sec

C) 35 sec

D) 40 sec

Answer: C) 35 sec

89. A man cycles at a speed of 12 km/hr for 30 minutes and 18 km/hr for next 15 minutes. Calculate average speed.

A) 14 km/hr

B) 15 km/hr

C) 16 km/hr

D) 17 km/hr

Answer: A) 14 km/hr

90. A man runs at 7 m/s and reaches his destination 2 minutes earlier than he could run at 5 m/s. What is the distance between his house and destination?

A) 1680 m

B) 1700 m

C) 1650 m

D) 1600 m

Answer: A) 1680 m

91. A train crosses a telegraph pole in 10 seconds and a bridge of length 280 m in 50 seconds. Find the length of the train if the speed is 72 km/hr.

A) 160 m

B) 150 m

C) 180 m

D) 190 m

Answer: C) 160 m

92. A man is running at 5 m/s. How much distance does he cover in 10 minutes?

A) 3000 m

B) 3500 m

C) 4000 m

D) 4500 m

Answer: A) 3000 m

93. A train speed is 72 km/hr. What is the time taken to cross a tree if its length is 120 m?

A) 9 sec

B) 10 sec

C) 11 sec

D) 12 sec

Answer: A) 6 sec

94. Two trains start from A and B at the same time and go towards each other. Speeds of the trains are 54 km/hr and 60 km/hr. Distance between A and B is 342 km. Find the time when trains meet.

A) 2.5 hours

B) 3 hours

C) 3.2 hours

D) 3.5 hours

Answer: B) 3 hours

95. A runner can complete a 400-meter race in 60 seconds. What is his speed in m/s?

A) 6.3 m/s

B) 6.4 m/s

C) 6.5 m/s

D) 6.6 m/s

Answer: A) 6.7 m/s

96. Distance between two stations is 240 km and a train takes 6 hours to cover this distance. Find the speed of the train.

A) 40 km/hr

B) 45 km/hr

C) 50 km/hr

D) 55 km/hr

Answer: A) 40 km/hr

97. A car left a place at 5 pm and reached the destination by 7 pm traveling at speed 30 km/hr. When it traveled at 45 km/hr, it reached 40 minutes earlier. Find the distance between the places.

A) 90 km

B) 100 km

C) 110 km

D) 120 km

Answer: B) 90 km

98. If a man can row 10 km/hr in still water and the stream flows at 1 km/hr, what time will he take to cover 9 km downstream?

A) 1 hour

B) 45 minutes

C) 40 minutes

D) 30 minutes

Answer: B) 45 minutes

99. A train 125 m long and running at 50 km/hr passes a man in how much time?

A) 7 seconds

B) 8 seconds

C) 9 seconds

D) 10 seconds

Answer: A) 9 seconds

100. Two trains are of equal lengths but have speeds in ratio 3:4. If they cross each other in 18 seconds when moving in opposite directions, find the length of a train if the speed of the slow train is 54 kmph.

A) 180 m

B) 200 m

C) 300 m

D) 250 m

Answer: A) 180 m