

Time and Distance

1. A train running at the speed of 60 km/hr 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

2. A boat can travel 30 km downstream in 2 hours and the same distance upstream in 3 hours. What is the speed of the boat in still water?

- A) 10 km/hr
- B) 12 km/hr
- C) 15 km/hr
- D) 18 km/hr

Answer: C) 15 km/hr

3. Two trains, each 100 m long, moving in opposite directions, cross each other in 8 seconds. If one is moving twice as fast as the other, what is the speed of the faster train?

- A) 30 km/hr
- B) 45 km/hr
- C) 60 km/hr
- D) 75 km/hr

Answer: C) 60 km/hr

4. A man walking at 4 km/hr reaches his office 8 minutes late. If he walks at 6 km/hr, he reaches 8 minutes early. What is the distance of the office from home?

- A) $3\frac{1}{5}$ km
- B) $2\frac{1}{5}$ km
- C) $4\frac{1}{5}$ km
- D) $5\frac{1}{5}$ km

Answer: A) $3\frac{1}{5}$ km

5. A train 270 metres long running at 120 km/hr crosses another train running in opposite direction at 80 km/hr in 9 seconds. What is the length of the other train?

- A) 230 meters
- B) 240 meters
- C) 260 meters
- D) 320 meters

Answer: A) 230 meters

6. A person covers half of his journey at 6 km/hr and the remaining half at 3 km/hr. What is his average speed?

- A) 3 km/hr
- B) 4 km/hr
- C) 4.5 km/hr
- D) 5 km/hr

Answer: B) 4 km/hr

7. A circular track of radius 21 m is traversed by a cyclist in 44 seconds. What is the speed of the cyclist?

- A) 10.5 m/s
- B) 13 m/s
- C) 15 m/s
- D) 9 m/s

Answer: A) 10.5 m/s

8. A man walks 10 km at 6 km/hr and runs 15 km at 9 km/hr. What is his average speed for entire journey?

- A) 7 km/hr
- B) 8 km/hr
- C) 8.5 km/hr
- D) 7.5 km/hr

Answer: D) 7.5 km/hr

9. A train 100 m long crosses a man walking at 4 km/hr in the same direction in 12 seconds. What is the speed of the train?

- A) 60 km/hr
- B) 42 km/hr
- C) 44 km/hr
- D) 46 km/hr

Answer: D) 46 km/hr

10. A man walks at 4 km/hr for half the distance and at 5 km/hr for remaining half. What is his average speed?

- A) 4.4 km/hr
- B) 4.5 km/hr
- C) 4.44 km/hr
- D) 4.6 km/hr

Answer: A) 4.4 km/hr

11. Boat covers 30 km downstream in 3 hours and returns upstream in 5 hours. Find speed of stream?

- A) 1 km/hr
- B) 2 km/hr
- C) 3 km/hr
- D) 4 km/hr

Answer: B) 2 km/hr

12. Two trains 120 m and 150 m long run in opposite directions at speeds 72 km/hr and 54 km/hr cross each other in?

- A) 20 sec
- B) 22 sec
- C) 25 sec
- D) 27 sec

Answer: C) 25 sec

13. A man rows a boat 6 km upstream and 8 km downstream in 2.5 hours. If speed of stream is 2 km/hr, what is speed of boat in still water?

- A) 10 km/hr
- B) 9 km/hr
- C) 8 km/hr
- D) 7 km/hr

Answer: B) 9 km/hr

14. A train 200 m long running at 72 km/hr passes a man in?

- A) 10 sec
- B) 15 sec
- C) 20 sec
- D) 25 sec

Answer: B) 15 sec

15. Two persons start from same place at same time walking in the same direction at 3 km/hr and 5 km/hr respectively. How far will the slower person be from the faster after 2 hours?

- A) 2 km
- B) 4 km
- C) 6 km
- D) 8 km

Answer: B) 4 km

16. The length of a train is 120 m and speed is 72 km/hr. What time will it take to cross a platform 180 m long?

- A) 10 sec
- B) 15 sec
- C) 18 sec
- D) 22 sec

Answer: B) 15 sec

17. Two runners start at the same time from opposite ends of a 200 meters track and run towards each other. One runs 25% faster than the other. How long will it take for them to meet?

- A) 40 seconds
- B) 50 seconds
- C) 45 seconds
- D) 60 seconds

Answer: C) 45 seconds

18. A motorboat whose speed in still water is 20 kmph takes 1.5 hours more to go 30 km upstream than to return downstream. Find speed of the stream.

- A) 3 km/hr
- B) 4 km/hr
- C) 5 km/hr
- D) 6 km/hr

Answer: A) 3 km/hr

19. Two trains are running towards each other at speeds of 60 km/hr and 40 km/hr respectively. The length of one train is 300 m and that of the other is 200 m. How long will they take to cross each other?

- A) 25 sec
- B) 30 sec
- C) 32 sec
- D) 35 sec

Answer: A) 25 sec

20. A car is moving at 60 km/hr. How many meters will it travel in one minute?

- A) 1000 m
- B) 1200 m
- C) 1500 m
- D) 1600 m

Answer: A) 1000 m

21. A cyclist covers a distance of 36 km at a speed of 12 km/hr. How long does he take?

- A) 3 hours
- B) 4 hours
- C) 2 hours
- D) 6 hours

Answer: A) 3 hours

22. A train travels 120 km in 1 hour 30 minutes. What is its average speed?

- A) 75 km/hr
- B) 80 km/hr
- C) 70 km/hr
- D) 90 km/hr

Answer: A) 75 km/hr

23. Two cars start from the same place and travel in opposite directions at speeds 40 km/hr and 60 km/hr. How far apart will they be after 2 hours?

- A) 200 km
- B) 180 km
- C) 220 km
- D) 150 km

Answer: A) 200 km

24. A train travels from city A to city B at an average speed of 60 km/hr and returns at an average speed of 40 km/hr. What is the average speed for the round trip?

- A) 48 km/hr
- B) 47 km/hr
- C) 49 km/hr
- D) 46 km/hr

Answer: A) 48 km/hr

25. A person covers a distance of 20 km at a speed of 4 km/hr and returns at a speed of 5 km/hr. What is his average speed for the journey?

- A) 4.44 km/hr
- B) 4.50 km/hr
- C) 4.25 km/hr
- D) 4.60 km/hr

Answer: A) 4.44 km/hr

26. The speed of a man walking with a heavy load is 3 km/hr and without load is 4 km/hr. For how many kilometers can he carry the load so that the total journey takes 8 hours?

- A) 4 km
- B) 6 km
- C) 8 km
- D) 10 km

Answer: B) 6 km

27. A boat goes 24 km upstream and returns in a total time of 5 hours. The speed of the boat is 6 km/hr. What is the speed of the stream?

- A) 2 km/hr
- B) 3 km/hr
- C) 4 km/hr
- D) 1 km/hr

Answer: A) 2 km/hr

28. A train 400 m long is moving at 72 km/hr. How long will it take to pass a man running at 6 km/hr in the same direction?

- A) 20 seconds
- B) 21 seconds
- C) 22 seconds
- D) 23 seconds

Answer: B) 21 seconds

29. A bus covers a distance of 240 km in 3 hours. What is its speed?

A) 60 km/hr

B) 80 km/hr

C) 70 km/hr

D) 75 km/hr

Answer: B) 80 km/hr

30. A cyclist covers a certain distance at a speed of 12 km/hr in 3 hours 30 minutes. What is the distance?

A) 38 km

B) 40 km

C) 42 km

D) 35 km

Answer: C) 42 km

31. A man walks 30 km at a speed of 6 km/hr and then runs 40 km at 20 km/hr. What is his average speed?

A) 10 km/hr

B) 12.5 km/hr

C) 15 km/hr

D) 17.5 km/hr

Answer: B) 12.5 km/hr

32. A train leaves a station at 60 km/hr, and another leaves the same station 1 hour later at 80 km/hr. How long will it take the faster train to catch the slower one?

A) 3 hours

B) 4 hours

C) 5 hours

D) 6 hours

Answer: A) 3 hours

33. Two runners start from the same point and run in opposite directions at speeds of 5 m/s and 3 m/s respectively. How far apart will they be after 1 minute?

- A) 480 m
- B) 4800 m
- C) 48000 m
- D) 1800 m

Answer: A) 480 m

34. A man walks 3 km on foot and then cycles 12 km. It takes him 3 hours for whole journey. If his cycling speed is 6 km/hr, what is his walking speed?

- A) 2 km/hr
- B) 3 km/hr
- C) 6 km/hr
- D) 1.5 km/hr

Answer: A) 2 km/hr

35. A train 150 m long takes 20 seconds to cross a man running at 5 km/hr in the same direction as the train. What is the speed of the train?

- A) 50 km/hr
- B) 54 km/hr
- C) 60 km/hr
- D) 65 km/hr

Answer: A) 50 km/hr

36. A person on foot can cover 16 km in 4 hours. On a bicycle, he covers the same distance in 1 hour. What is the speed of the bicycle?

- A) 15 km/hr
- B) 16 km/hr
- C) 18 km/hr
- D) 20 km/hr

Answer: D) 16 km/hr

37. A car travels from point A to B at speed of 60 km/hr and returns at speed of 40 km/hr. What's the average speed for the entire trip?

- A) 48 km/hr
- B) 50 km/hr
- C) 52 km/hr
- D) 54 km/hr

Answer: A) 48 km/hr

38. Two trains, moving in opposite directions at speeds 80 km/hr and 70 km/hr, cross each other completely in 20 seconds. What is the length of the longer train if the shorter is 150 m?

- A) 230 m
- B) 280 m
- C) 270 m
- D) 200 m

Answer: C) 270 m

39. A boat travels upstream 12 km in 3 hours and downstream 18 km in 2 hours. What is 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

40. The speed of a man walking in still water is 12 km/hr. If the speed of the stream is 3 km/hr, what is his speed downstream?

- A) 9 km/hr
- B) 12 km/hr
- C) 15 km/hr
- D) 16 km/hr

Answer: C) 15 km/hr

41. Two trains start at the same time from two stations 400 km apart and move toward each other at speeds of 60 and 40 km/hr respectively. How long will it take for trains to meet?

- A) 4 hours
- B) 5 hours
- C) 6 hours
- D) 7 hours

Answer: B) 4 hours

42. A boy walks from his house to school at 2.5 km/hr and arrives 12 minutes late. Next day he walks at 4 km/hr and reaches 15 minutes earlier. Find the distance to school.

- A) 2 km
- B) 2.5 km
- C) 3 km
- D) 3.5 km

Answer: B) 2.5 km

43. A train traveling at 72 km/hr crosses a platform 450 m long in 45 seconds. How long is the train?

- A) 320 m
- B) 350 m
- C) 370 m
- D) 400 m

Answer: A) 320 m

44. A car covers 360 km at an average speed of 60 km/hr. How long does it take?

- A) 5 hours
- B) 6 hours
- C) 7 hours
- D) 8 hours

Answer: B) 6 hours

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

A) 20 hr

B) 21 hr

C) 22 hr

D) 23 hr

Answer: C) 22 hrs

46. A car travels 600 km at 50 km/hr and 400 km at 60 km/hr. Find average speed.

A) 54 km/hr

B) 55 km/hr

C) 56 km/hr

D) 57 km/hr

Answer: B) 54.54 km/hr

47. A man runs half of the distance at 12 km/hr and half at 10 km/hr. What is his average speed?

A) 10.5 km/hr

B) 10.9 km/hr

C) 11 km/hr

D) 11.5 km/hr

Answer: B) 10.91 km/hr

48. A man travels the first 20 km at 10 km/hr and next 30 km at 15 km/hr. What's the average speed?

A) 12 km/hr

B) 12.5 km/hr

C) 13 km/hr

D) 14 km/hr

Answer: A) 12 km/hr

49. When a man walks 3 km/hr, he is late by 10 minutes. When he walks 4 km/hr, he is early by 5 minutes. What is the distance?

A) 4.8 km

B) 5 km

C) 5.5 km

D) 6 km

Answer: A) 4.8 km

50. A train running at 75 km/hr crosses an electric pole in 18 sec. What is length of train?

A) 300 m

B) 350 m

C) 375 m

D) 400 m

Answer: A) 375 m

51. Two trains 120 m and 180 m in length start simultaneously from two places 90 seconds apart. If they cross each other in 15 seconds, speed of faster train is?

A) 60 km/hr

B) 72 km/hr

C) 88 km/hr

D) 90 km/hr

Answer: B) 72 km/hr

52. A man cycles to a place at 12 km/hr and returns at 18 km/hr. Find average speed.

A) 14.6 km/hr

B) 15 km/hr

C) 15.4 km/hr

D) 16 km/hr

Answer: A) 14.6 km/hr

53. A train crosses a man in 20 sec and platform of 50 m length in 45 sec. If speed of train is 72 km/hr, what is length of train?

A) 100 m

B) 110 m

C) 120 m

D) 130 m

Answer: C) 120 m

54. A train 200 m long crosses a platform in 25 seconds. Speed of train is 72 km/hr. What's the length of platform?

- A) 250 m
- B) 280 m
- C) 300 m
- D) 320 m

Answer: A) 250 m

55. Boat travels 40 km downstream in 4 hours and returns in 5 hours. Speed of stream is?

- A) 1 km/hr
- B) 2 km/hr
- C) 3 km/hr
- D) 4 km/hr

Answer: B) 2 km/hr

56. Two trains, one 150 m and other 120 m long, are running in opposite directions at speeds 60 km/hr and 72 km/hr respectively. Time to cross each other?

- A) 8 sec
- B) 10 sec
- C) 12 sec
- D) 14 sec

Answer: B) 10 sec

57. A man walks at 5 km/h and runs at 10 km/h the same distance. Find average speed?

- A) 6.67 km/hr
- B) 7 km/hr
- C) 7.5 km/hr
- D) 8 km/hr

Answer: A) 6.67 km/hr

58. A man walks 2 km at 4 km/hr and 3 km at 6 km/hr. What is average speed?

A) 4.8 km/hr

B) 5 km/hr

C) 5.2 km/hr

D) 6 km/hr

Answer: B) 5 km/hr

59. Two trains of lengths 150 m and 120 m run in opposite directions at speeds of 50 km/hr and 54 km/hr. Time to cross each other?

A) 10 sec

B) 12 sec

C) 14 sec

D) 16 sec

Answer: B) 12 sec

60. A train 270 m long crosses a pole in 9 seconds. What is its speed?

A) 54 km/hr

B) 60 km/hr

C) 70 km/hr

D) 75 km/hr

Answer: D) 75 km/hr

61. A man rowed 30 km upstream in 5 hours and the same distance downstream in 3 hours. Find 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

62. Train crosses man walking in opposite direction in 10 seconds; length of train = 160 m, speed of man = 5 km/hr. Find speed of train.

A) 50 km/hr

B) 60 km/hr

C) 72 km/hr

D) 80 km/hr

Answer: B) 60 km/hr

63. A truck moving at 60 km/hr crosses a bridge in 36 seconds. If the length of the bridge is 600 m, what is the length of the truck?

A) 120 m

B) 150 m

C) 180 m

D) 200 m

Answer: B) 150 m

64. A train running at a speed of 72 km/hr crosses a pole in 15 seconds. What is the length of the train?

A) 280 m

B) 300 m

C) 330 m

D) 350 m

Answer: B) 300 m

65. Two trains 100 m and 160 m long running at 40 km/hr and 60 km/hr respectively, cross each other in?

A) 8 sec

B) 9 sec

C) 10 sec

D) 11 sec

Answer: A) 8 sec

66. A man travels first half distance at 12 km/hr and second half at 15 km/hr. Find average speed?

A) 13 km/hr

B) 13.67 km/hr

C) 14 km/hr

D) 14.5 km/hr

Answer: B) 13.67 km/hr

67. 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 km/hr

B) 10 km/hr

C) 11 km/hr

D) 12 km/hr

Answer: B) 10 km/hr

68. Speed of a boat in still water is 25 km/hr. It takes 6 hours to cover a distance upstream. If speed of stream is 1 km/hr, then distance is?

A) 140 km

B) 144 km

C) 150 km

D) 160 km

Answer: B) 144 km

69. A car starts from A to B at 40 km/hr and returns at 60 km/hr. Average speed?

A) 48 km/hr

B) 50 km/hr

C) 52 km/hr

D) 54 km/hr

Answer: A) 48 km/hr

70. A person goes 15 km to a place at 3 km/hr and returns at 5 km/hr. Find average speed?

A) 3.75 km/hr

B) 3.8 km/hr

C) 4 km/hr

D) 4.2 km/hr

Answer: A) 3.75 km/hr

71. Distance between two places is 120 km. A train covers the distance at 60 km/hr. How much time will it take?

A) 1 hr

B) 2 hr

C) 3 hr

D) 4 hr

Answer: B) 2 hr

72. A man travels at 20 km/hr from A to B and returns at 30 km/hr. What's his average speed?

A) 24 km/hr

B) 25 km/hr

C) 26 km/hr

D) 28 km/hr

Answer: A) 24 km/hr

73. A cyclist travels 20 km at 10 km/hr and 12 km at 16 km/hr. What is average speed?

A) 12 km/hr

B) 12.5 km/hr

C) 13 km/hr

D) 14 km/hr

Answer: A) 12 km/hr

74. A train 200 m long running at 72 km/hr passes a platform 100 m long in?

A) 10 sec

B) 15 sec

C) 12.5 sec

D) 25 sec

Answer: C) 12.5 sec

75. A man rows a boat 15 km downstream in 3 hours and returns upstream in 5 hours. Find boat speed in still water?

- A) 6 km/hr
- B) 7 km/hr
- C) 8 km/hr
- D) 9 km/hr

Answer: C) 8 km/hr

76. Two trains start from two stations 140 km apart and move towards each other at speeds 40 km/hr and 60 km/hr. Find the time taken to meet.

- A) 2 hr
- B) 3 hr
- C) 4 hr
- D) 5 hr

Answer: B) 2 hr

77. A man walks 2 km at 3 km/hr and 4 km at 6 km/hr. What is his average speed?

- A) 4 km/hr
- B) 4.5 km/hr
- C) 5 km/hr
- D) 4.2 km/hr

Answer: B) 4.5 km/hr

78. Train A is moving at 60 km/hr and train B at 40 km/hr. Both trains are 150 m in length and 400 m apart. How much time will it take to cross each other?

- A) 25 sec
- B) 27 sec
- C) 28 sec
- D) 30 sec

Answer: A) 27 sec

79. A train of length 250 m moving at 72 km/hr crosses 300 m long platform in?

- A) 30 sec
- B) 36 sec
- C) 40 sec
- D) 45 sec

Answer: B) 36 sec

80. Speed of a boat in still water is 12 km/hr and speed of stream is 3 km/hr. Find time taken to cover 15 km downstream.

- A) 1 hr
- B) 1.25 hr
- C) 1.5 hr
- D) 1.75 hr

Answer: B) 1.25 hr

81. Two trains are at a distance of 250 km. They travel towards each other at speeds 90 km/hr and 60 km/hr respectively. Find time when they meet.

- A) 2 hr
- B) 2.5 hr
- C) 3 hr
- D) 3.5 hr

Answer: A) 2 hr

82. A car going at 90 km/hr reaches destination 1 hour earlier than usual. What is the usual speed?

- A) 60 km/hr
- B) 65 km/hr
- C) 75 km/hr
- D) 80 km/hr

Answer: C) 75 km/hr

83. Distance between two cities is 150 km. A biker reduces speed by 10 km/hr and takes 30 minutes more. Find original speed.

A) 40 km/hr

B) 50 km/hr

C) 45 km/hr

D) 55 km/hr

Answer: B) 50 km/hr

84. A train crosses a platform in 30 seconds and a signal pole in 20 seconds at a speed of 60 km/hr. What is the length of the platform?

A) 180 m

B) 200 m

C) 220 m

D) 240 m

Answer: A) 180 m

85. Two men run around a 400 m circular track in 100 and 120 seconds respectively. How soon will they meet at the starting point?

A) 300 sec

B) 400 sec

C) 200 sec

D) 240 sec

Answer: C) 200 sec

86. A man covers a distance at a speed of 10 km/hr and returns at a speed of 14 km/hr. What is his average speed?

A) 11.5 km/hr

B) 11.66 km/hr

C) 12 km/hr

D) 12.5 km/hr

Answer: B) 11.66 km/hr

87. One train starts from point A to B at 6 AM at 72 km/hr another starts at 7 AM at 90 km/hr from point B to A. The distance between A and B is 330 km. When will trains meet?

- A) 10 AM
- B) 10:20 AM
- C) 10:30 AM
- D) 11 AM

Answer: C) 10:30 AM

88. The time taken by a train running at 63 km/hr to pass a man running at 9 km/hr in the same direction is 18 seconds. What is the length of the train?

- A) 102 m
- B) 180 m
- C) 210 m
- D) 225 m

Answer: A) 102 m

89. A man travels 80 km at 16 km/hr and returns at 24 km/hr. What is his average speed?

- A) 19.2 km/hr
- B) 20.5 km/hr
- C) 21.3 km/hr
- D) 22.4 km/hr

Answer: A) 19.2 km/hr

90. Two persons start from opposite ends and move towards each other at 8 km/hr and 7 km/hr respectively. The distance between them is 60 km. When will they meet?

- A) 4 hr
- B) 5 hr
- C) 6 hr
- D) 7 hr

Answer: A) 4 hr

91. A cycle travels 10 km at 20 km/hr. What is the time taken to cover the distance?

- A) 20 minutes
- B) 25 minutes

C) 30 minutes

D) 35 minutes

Answer: A) 30 minutes

92. A train 80 m long running at 54 km/hr passes a tunnel 1.12 km long. The time taken to cross the tunnel is?

A) 80 sec

B) 75 sec

C) 90 sec

D) 60 sec

Answer: C) 90 sec

93. Two trains 100 m and 150 m entire tracks are crossing in how many seconds if the relative speed is 90 km/hr

A) 10 sec

B) 12 sec

C) 14 sec

D) 16 sec

Answer: A) 10 sec

94. Speed of a train is 72 km/hr. What is velocity of the train in m/s?

A) 20

B) 25

C) 30

D) 35

Answer: C) 30

95. A person walks 5 km at 5 km/hr and runs 10 km at 10 km/hr. What is the average speed?

A) 7.5 km/hr

B) 8 km/hr

C) 8.25 km/hr

D) 9 km/hr

Answer: A) 7.5 km/hr

96. The length of a platform is 400 meters. A train 150 m long passing over it crosses a pole in 20 seconds. How much time will it take to cross the platform?

- A) 55 sec
- B) 48 sec
- C) 44 sec
- D) 42 sec

Answer: B) 48 sec

97. A train traveling at 72 km/hr crosses a platform of length 650 meters in 40 seconds. What is the length of the train?

- A) 200 m
- B) 250 m
- C) 300 m
- D) 350 m

Answer: C) 300 m

98. Two trains starting together from the same point travel in opposite directions at 60 km/hr and 40 km/hr. How far apart will they be after 6 hours?

- A) 480 km
- B) 360 km
- C) 240 km
- D) 600 km

Answer: A) 600 km

99. The speed of a car is doubled and it reaches its destination 2 hours earlier. If the original speed was 40 km/hr, what is the distance to the destination?

- A) 160 km
- B) 200 km
- C) 240 km
- D) 280 km

Answer: B) 240 km

100. A train running at 72 km/hr crosses a man in 10 seconds. Find length of the train?

A) 180 m

B) 200 m

C) 220 m

D) 240 m

Answer: A) 200 m