CLAT IQ

TIME & DISTANCE
50 Toughest MCQs
Topic: Time & Distance by Sandeep Shukla Sir

1. **A train 180 m long crosses a 270 m platform in 18 seconds. At the same speed, it crosses a man running in the opposite direction at 6 m/s in 10 seconds. What is the speed of the train?**

A) 30 m/s
B) 36 m/s
C) 39 m/s
D) 45 m/s

2. **Two cyclists start simultaneously from A and B, 72 km apart, and move towards each other at 14 km/h and 22 km/h. After how much time will they meet?**

A) 1 h 45 min
B) 2 h
C) 2 h 15 min
D) 2 h 30 min

3. **A car covers the first half of a journey at 40 km/h and the second half at 60 km/h. What is its average speed?**

A) 48 km/h
B) 50 km/h
C) 52 km/h
D) 54 km/h

4. **A man walks to a place at 5 km/h and returns by bicycle at 15 km/h. If the total journey takes 4 hours, what is the one-way distance?**

A) 10 km
B) 12 km
C) 15 km
D) 20 km

5. **A train running at 72 km/h overtakes a man running at 9 km/h in the same direction in 12 seconds. Find the train's length.**

A) 180 m
B) 200 m
C) 210 m
D) 240 m

6. **Two trains of lengths 180 m and 220 m run in opposite directions at 54 km/h and 72 km/h. How long do they take to cross each other?**

A) 10 s
B) 11.43 s
C) 12.5 s
D) 15 s

7. **A boat covers 30 km downstream in 2 h and the same distance upstream in 3 h. What is the speed of the stream?**

A) 2 km/h
B) 2.5 km/h
C) 3 km/h
D) 5 km/h

8. **A person travels 120 km. For the first 40 km his speed is 30 km/h, for the next 40 km it is 40 km/h, and for the last 40 km it is 60 km/h. Find average speed.**

A) 40 km/h

B) 42 km/h

C) 45 km/h

D) 48 km/h

9. A train crosses a pole in 8 seconds and a 240 m platform in 20 seconds. Find the train's length.

A) 120 m

B) 140 m

C) 160 m

D) 180 m

10. Two persons start from the same point in opposite directions at 5 km/h and 7 km/h. After how long will they be 48 km apart?

A) 3 h

B) 4 h

C) 5 h

D) 6 h

11. A runner increases his speed by 25% and thereby takes 12 minutes less for the same distance. What was his original time?

A) 48 min

B) 54 min

C) 60 min

D) 72 min

12. A train 150 m long passes a platform in 15 seconds at 54 km/h. What is the platform length?

A) 50 m

B) 75 m

C) 100 m

D) 125 m

13. A car travels 300 km. It covers one-third of the distance at 50 km/h, one-third at 75 km/h and the rest at 100 km/h. What is its average speed?

A) 70 km/h

B) 72 km/h

C) 75 km/h

D) 80 km/h

14. A and B start from the same point in the same direction at 12 km/h and 18 km/h. After 40 minutes, how far apart are they?

A) 3 km

B) 4 km

C) 5 km

D) 6 km

15. A train moving at 90 km/h crosses a bridge in 24 seconds. If the train is 400 m long, find the bridge length.

A) 150 m

B) 180 m

C) 200 m

D) 220 m

16. A boat's speed in still water is 15 km/h and stream speed is 3 km/h. How much time is needed to travel 72 km upstream and return?

A) 9 h

B) 10 h

C) 10.5 h

D) 11 h

17. A man covers a distance in 6 hours. If he increases his speed by 3 km/h, he takes 1 hour less. Find the distance.

A) 72 km

B) 81 km

C) 90 km

D) 108 km

18. Two trains 250 m and 350 m long run in the same direction at 72 km/h and 54 km/h. How long does the faster train take to overtake the slower train?

A) 100 s

B) 110 s

C) 120 s

D) 140 s

19. A person reaches office 20 minutes late at 5 km/h and 10 minutes early at 6 km/h. Find the distance.

A) 10 km

B) 12 km

C) 15 km

D) 18 km

20. A train travels 25% faster than another train. For the same distance, the slower train takes 12 minutes more. How much time does the faster

train take?

A) 36 min

B) 42 min

C) 48 min

D) 60 min

21. A car covers 240 km. If its speed were 10 km/h more, it would take 1 hour less. What is its original speed?

A) 40 km/h

B) 45 km/h

C) 48 km/h

D) 50 km/h

22. A man walks 3 km at 4 km/h, 6 km at 6 km/h, and 9 km at 9 km/h. Find his average speed.

A) 6 km/h

B) 6.5 km/h

C) 7 km/h

D) 7.5 km/h

23. A train 210 m long crosses a 140 m bridge in 14 seconds. Find its speed.

A) 72 km/h

B) 80 km/h

C) 90 km/h

D) 100 km/h

24. Two trains start from stations 600 km apart and move towards each other at 80 km/h and 70 km/h. A bird flies between them at 100 km/h until they meet. What distance does the bird cover?

A) 300 km

B) 400 km

C) 500 km

D) 600 km

25. A person goes from A to B at 8 km/h and returns at 12 km/h. If the total time is 5 hours, find AB.

A) 20 km

B) 24 km

C) 30 km

D) 32 km

26. A train passes a stationary man in 6 seconds and a platform in 18 seconds. If the platform is 360 m long, find the train's speed.

A) 60 km/h

B) 72 km/h

C) 90 km/h

D) 108 km/h

27. A car's speed is reduced by 20%. By what percentage must the reduced speed be increased to restore the original speed?

A) 20%

B) 25%

C) 30%

D) 33%

28. A cyclist travels 20 km at 10 km/h and another 20 km at 20 km/h. Find average speed.

A) 12 km/h

B) 13 km/h

C) 15 km/h

D) 16 km/h

29. A train takes 30 seconds to cross a 300 m platform and 18 seconds to cross a 120 m platform. Find its length.

A) 120 m

B) 150 m

C) 180 m

D) 200 m

30. A boat takes 4 hours downstream and 6 hours upstream to cover the same distance. If stream speed is 2 km/h, find the distance.

A) 24 km

B) 32 km

C) 36 km

D) 48 km

31. A runner completes a 400 m race in 50 seconds. If another runner is 5 seconds slower, by how many metres does the first runner win?

A) 32 m

B) 36 m

C) 40 m

D) 45 m

32. A train moving at 60 km/h crosses another train

of equal length moving in the opposite direction at 40 km/h in 9 seconds. Find each train's length.

A) 100 m

B) 125 m

C) 150 m

D) 200 m

33. A man can row 18 km downstream in 1.5 h and 12 km upstream in 2 h. Find his speed in still water.

A) 8 km/h

B) 9 km/h

C) 10 km/h

D) 12 km/h

34. A car covers a distance at 50 km/h. If it had travelled 10 km/h faster, it would have taken 30 minutes less. Find the distance.

A) 125 km

B) 150 km

C) 175 km

D) 200 km

35. Two persons are 90 km apart. They move towards each other at 12 km/h and 18 km/h, but the faster person starts 30 minutes later. When do they meet after the first person starts?

A) 2 h 30 min

B) 2 h 40 min

C) 2 h 50 min

D) 3 h

36. A train 300 m long passes a pole in 15 seconds. It passes another train 200 m long moving in the same direction at 36 km/h in how many seconds?

A) 40 s

B) 45 s

C) 50 s

D) 60 s

37. A man travels 60% of a journey at 30 km/h and the remaining 40% at 20 km/h. Find average speed.

A) 24 km/h

B) 25 km/h

C) 26 km/h

D) 27 km/h

38. A train covers 450 km in 5 hours including a 30-minute halt. Find its running speed.

A) 90 km/h

B) 95 km/h

C) 100 km/h

D) 108 km/h

39. A bus starts 20 minutes late and increases its speed from 45 km/h to 60 km/h to reach on time. What is the scheduled journey time?

A) 45 min

B) 60 min

C) 75 min

D) 90 min

40. A man walks at 6 km/h and reaches 15 minutes late. At 8 km/h he reaches 15 minutes early. Find the distance.

A) 10 km

B) 12 km

C) 15 km

D) 18 km

41. A train passes a 180 m platform in 12 seconds and a 120 m platform in 10 seconds. Find the train's length.

A) 120 m

B) 150 m

C) 180 m

D) 200 m

42. A car and a bus start together. The car travels at 72 km/h and bus at 54 km/h. After 2 hours, the car stops for 30 minutes. How far ahead is the car when the bus catches up?

A) 18 km

B) 27 km

C) 36 km

D) 45 km

43. A boat travels 48 km downstream in 3 h and returns in 4 h. Find its speed in still water.

A) 12 km/h

B) 13 km/h

C) 14 km/h

D) 15 km/h

44. A train's speed is increased by 15 km/h, reducing travel time for 300 km by 1 hour. Find original speed.

A) 45 km/h
B) 50 km/h
C) 60 km/h
D) 75 km/h

45. A person covers 1/4 of a distance at 20 km/h, 1/2 at 30 km/h and the rest at 40 km/h. Find average speed.

A) 28.5 km/h
B) 29.1 km/h
C) 30 km/h
D) 31.2 km/h

46. A train 240 m long runs at 72 km/h. How long will it take to cross a tunnel 360 m long?

A) 24 s
B) 30 s
C) 36 s
D) 40 s

47. A man rows a boat 16 km upstream in 4 h and the same distance downstream in 2 h. Find stream speed.

A) 2 km/h
B) 3 km/h
C) 4 km/h
D) 5 km/h

48. Two trains start from the same station in opposite directions at 60 km/h and 75 km/h. After 24 minutes, what is their separation?

A) 48 km
B) 50 km
C) 54 km
D) 60 km

49. A car travels at 40 km/h for 2 h, 50 km/h for 3 h, and 60 km/h for 1 h. Find average speed.

A) 47.5 km/h
B) 48.33 km/h
C) 50 km/h
D) 52.5 km/h

50. A train crosses a pole in 10 seconds and a man walking at 5 m/s in the opposite direction in 8 seconds. Find train speed.

A) 20 m/s
B) 25 m/s
C) 30 m/s
D) 35 m/s

51. A journey is completed in 8 hours. If speed is increased by 25%, how much time is saved?

A) 1 h
B) 1 h 20 min
C) 1 h 36 min
D) 2 h

52. A cyclist covers a distance at 12 km/h. Had he increased speed by 4 km/h, he would have taken 1 hour less. Find the distance.

A) 36 km
B) 42 km
C) 48 km
D) 60 km