## **TRAIN**

train.

(1) 25m, 50m

(4) 50m, 80m

10. A train running at 25 km/hr. takes 18 seconds to pass

a platform. Next it takes 10 seconds to pass a man

walking at the rate of 7 km/hr. in the same direction. Find the length of the platform and the length of the

(5) None of these

(2) 45m, 85m (3) 75m, 50m

1. A train 110 m in length runs through a station at the

(2) 12 sec.

2. A train 540 m long is running with a speed of 72 km/hr. In what time will it pass a tunnel 160 m long?

a given point?

(5) None of these

(1) 11 sec.

(4) 15 sec.

rate of 36 km per hour. How long will it take to pass

(5) None of these

(3) 13 sec.

3.	<ul> <li>(1) 40 sec.</li> <li>(2) 30 sec.</li> <li>(3) 35 sec.</li> <li>(4) 42 sec.</li> <li>(5) None of these</li> <li>A train 200 m long is running with a speed of 72 km/hr.</li> </ul>		250 metres long train crosses a platform of length 350 metres in 50 seconds. Find the time of train to cross a bridge of 230 metres.
	In what time will it pass a platform 160 m long?		(1) 45 sec. (2) 50 sec. (3) 40 sec.
	(1) 18 sec. (2) 21 sec. (3) 15 sec.		(4) 54 sec. (5) None of these
4.	<ul><li>(4) 20 sec.</li><li>(5) None of these</li><li>Two trains 70 m and 80 m long respectively, run at the rates of 68 and 40 km an hour respectively on parallel rails in opposite directions. How long do they</li></ul>		60 metres long train crosses a tunnel of length 40 metres in 10 seconds. Find the time for train to cross a man standing on a platform of length 65 metres.
	take to pass each other?		(1) 6 sec. (2) 8 sec. (3) 5 sec.
	(1) 5 sec. (2) 10 sec. (3) 12 sec.		(4) 4 sec. (5) None of these
	(4) 6 sec. (5) None of these	13.	Two trains start at the same time from Patna and
5.	A train 110 metres long travels at 60 km/hr. How long does it take to cross another train 170 metres long, running at 54 km/hr. in the same direction?  (1) 2 min 40 sec.  (2) 2 min 48 sec.  (3) 3 min 48 sec.  (4) 3 min 40 sec.		Gaya and proceed towards each other at the rate of 60 km and 40 km per hour respectively. When they meet, it is found that one train has travelled 20 km more than the other. Find the distance between Gaya and Patna.
	(5) None of these		(1) 100 km (2) 80 km (3) 120 km
6.	Two trains travel in the same direction at 56 km and		(4) 90 km (5) None of these
	29 km an hour and the faster train passes a man in the slower train in 16 seconds. Find the length of the faster train.  (1) 100 m  (2) 120 m  (3) 124 m  (4) Data inadequate  (5) None of these	14.	Two stations A and B are 110 kms apart on a straight line. One train starts from A at 7 AM and travels towards B at 20 km/hr speed. Another train starts from B at 8 AM and travels towards A at 25 km/hr speed. At what time will they meet?
7	A train running at 24 km/hr takes 30 seconds to pass		(1) 9 AM (2) 10 AM (3) 11 AM
,.	a platform. Next, it takes 10 seconds to pass a man		(4) 11.5 AM (5) None of these
8.	walking at 12 km/hr in the opposite direction. Find the length of the train.  (1) 50 m  (2) 100 m  (3) 75 m  (4) 120 m  (5) None of these  Two trains are moving in the opposite direction at 30 km and 24 km/hr. The faster train crosses a man in	15.	Two stations A and B are 60 km apart on a straight line. A train starts from A towards B at the rate of 20 km/hr. 3 hours later another train starts from B and travels towards A at the rate of 25 km/hr. When will the first train meet to the second train?
			(1) 1 hr. (2) 2 hrs. (3) 3 hrs.
	the slower train in 6 seconds. Find the length of the		(4) 4 hrs. (5) None of these
	faster train.	16	A train travelling at a uniform speed, clears a platform
0	(1) 80 m (2) 100 m (3) 110 m (4) 90 m (5) None of these	10.	200 metres long in 10 seconds and passes a telegraph post in 6 seconds. Find the length of the train and its
9.	2. A train running at 35 km per hour takes 18 seconds to pass a platform. Next, it takes 12 seconds to pass a man walking at the rate of 5 km/hr in the same direction. Find the length of the train and that of the platform.		speed.
			(1) 300m, 180 km/hr. (2) 200m, 180 km/hr
			(3) 300m, 50 km/hr (4) 200 m, 50 km/hr
	(1) 50 m, 75 m (2) 100 m, 75 m (3) 75 m, 25 m (4) 85 m, 55 m		(5) None of these

17.	line. A train starts km/hr. Another earlier, travels to	A and B are 95 km apart on a straight starts from A and travels towards B at 35 her train, starting from B 30 minutes ls towards A at 40 km/hr. When will the eet to the second train?		25.	Two trains 130 and 110 metres long, while going in the same direction, the faster train takes one minute to pass the other completely. If they are moving in opposite direction, they pass each other completely in 3 seconds. Find the speed of trains.
	(1) 2 hrs.	(2) 1 hr.	(3) 1.5 hrs.		(1) 24 m/sec., 19 m/sec. (2) 42 m/sec., 38 m/s
	(4) 2.5 hrs.	(5) None of the	nese		(3) 40 m/sec., 36 m/sec. (4) Data inadequate
18.	. Two trains of the same length but with different speeds pass a static pole in 5 seconds and 6 seconds respectively. In what time will they cross each other when they are moving in the same direction.			(5) None of these	
			26.	Two trains running at the rates of 45 and 36 km an hour respectively, on parallel rails in opposite	
	(1) 1 hr.	(2) 50 sec.	(3) 1 min		directions, are observed to pass each other in seconds, and when they are running in the sai direction at the same rate as before, a person sitti
	(4) 60 min	(5) None of the	nese		
19.	. Two trains of the same length but with different speeds pass a static pole in 6 seconds and 9 seconds respectively. In what time will they cross each other when they are moving in the same direction.			in the faster train observes that he passes the other in 30 seconds. Find the length of the trains.	
				(1) 105 m, 75m (2) 50m, 25m	
				(3) 120m, 90m (4) 100m, 75m	
	(1) 6 sec.	(2) 30 sec.			(5) None of these
	(4) 42 sec.			27.	A train 75 metres long overtook a man who was
20.	Two trains of the	wo trains of the same length but with different speeds			walking at the rate of 6 km/hr. and passed him in 18

travelling?

(1) 3 km/hr.

(4) 9 km/hr.

train.

(1) 100 m

(4) 125 m

seconds. Again, the train overtook a second person in

15 seconds. At what rate was the second person

(5) None of these

opposite to the train at 7 m/sec. and at 12m/sec. in 5

and 4 seconds respectively. Find the length of the

(5) None of these

and another train of the length 100 m travelling in

opposite directions in 10 seconds. Find the speed of

(3) 8 km/hr.

(3) 75 m

(3) 44 km/hr.

(2) 130 m, 22 m/sec.

(4) 65 m, 11 m/sec.

(2) 32.4 km/hr.

(4) 21.6 km/hr.

(2) 5 km/hr.

28. A train passes two men walking in the direction

(2) 120 m

29. A train 120 m in length passes a pole in 12 seconds

30. A train crosses 420 metres and 244 metres long bridge

31. A train 192 metres in length passes a pole in 12

seconds and another train of the length 288 metres

travelling in the same direction in 48 seconds. Find

in 50 seconds and 34 seconds respectively. Find the

the second train in km per hour.

(1) 43.2 km/hr. (2) 43 km/hr.

length and speed of the train.

the speed of the seconds train.

(1) 10 m, 44 m/sec.

(3) 130 m, 11 m/sec.(5) None of these

(1) 42.6 km/hr.

(5) None of these

(3) 32 km/hr.

(4) 43.5 km/hr. (5) None of these

pass a static pole in 4 seconds and 8 seconds

respectively. In what time will they cross each other

(5) None of these

pass a static pole in 10 seconds and 15 seconds

respectively. In what time will they cross each other

(5) None of these

with different speeds pass a static pole in 8 seconds

and 14 seconds respectively. In what time will they

cross each other when they are moving in the same

(5) None of these

with different speeds pass a static pole in 1 min and

3 min respectively. In what time will they cross each other when they are moving in the opposite direction?

(5) None of these

pass a static pole in 6 seconds and 5 seconds respectively. In what time will they cross each other

(5) None of these

(2) 5.625 sec. (3) 6 sec.

(3) 6 sec.

(3) 12.5 sec.

(3) 72 sec.

(3) 120 sec.

when they are moving in the opposite direction.

21. Two trains of the same length but with different speeds

when they are moving in the opposite direction.

(2) 11 sec.

22. Two trains of the length 200 m and 250 m respectively

(2) 64 sec.

23. Two trains of the length 100m and 150m respectively

(2) 100 sec.

24. Two trains of the length 200 m and 100 m respectively

when they are moving in opposite direction.

(2) 5 sec.

(1)  $5\frac{1}{3}$  sec.

(4) 5.3 sec.

(1) 13 sec.

(4) 12 sec.

direction?

(1) 63 sec.

(4) 81 sec.

(1)  $\frac{5}{3}$  sec.

(4) 50 sec.

(1) 4.5 sec.

(4) 6.5 sec.

- 32. A good train and a passenger train are running on parallel tracks in the same direction. The driver of the goods train observes that the passenger train coming from behind overtakes and crosses his train completely in 30 seconds. Whereas a passenger on the passenger train marks that he crosses the goods train in 20 seconds. If the speeds of the trains be in the ratio of 1 : 2, find the ratio of their lengths.
  - $(1) \ 3:2$
- $(2) \ 3:1$
- (3) 2 : 1

- (4) 4:1
- (5) None of these
- 33. A train after travelling 60 km meets with an accident and then proceeds at  $\frac{2}{3}$  of its former speed and arrives at its destination 40 minutes late. Had the accident occurred 30 km further, it would have reached the destination only 20 minutes late. Find the speed of the train and the distance which the train travels.
  - (1) 45 km/hr, 90 km
- (2) 60 km/hr, 120 km
- (3) 45 km/hr, 120 km (4) 47 km/hr, 95 km
- (5) None of these
- 34. A train after travelling 100 km meets with an accident and then proceeds at  $\frac{3}{5}$  of its former rate and arrives at the terminus 48 minutes late. Had the accident happened 30 km further on, it would have arrived 24 minutes sooner. Find the rate of the train and the distance.
  - (1) 50 km/hr, 160 km (2) 45 km/hr, 150 km
  - (3) 50 km/hr, 150 km (4) 50 km/hr, 120 km
  - (5) None of these
- 35. A train meets with an accident 5 hours after starting, which detains it for 1 hour, after which it proceeds at 40% of its original speed. It arrives at the destination 6 hours late. Had the accident taken place 200 km farther along the railway line, the train would have arrived only 5 hours late. Find the length of the trip and the original speed of the train.
  - (1) 300 km/hr, 2500 km (2) 200 km/hr, 1650 km
  - (3) 350 km/hr, 1850 km (4) 250 km/hr, 1700 km
  - (5) None of these

- 36. A train covers a distance between stations A and B in 2 hours. If the speed is reduced by 6 km/hr, it will cover the same distance in 3 hours. What is the distance between the two stations A and B (in km)? Also, find the speed of the train.
  - (1) 36 km, 18 km/hr.
- (2) 42 km, 21 km/hr
- (3) 18 km, 9 km/hr
- (4) 28 km, 14 km/hr.
- (5) None of these
- 37. Two places P and Q are 92 km apart. A train leaves P for Q and at the same time another train leaves Q for P. Both the trains meet 4 hrs. after they start moving. If the train travelling from P to Q travels 7 km/hr. faster than the other train, find the speed of the two trains.
  - (1) 15 km/hr, 8 km/hr. (2) 12 km/hr, 8 km/hr.
  - (3) 12 km/hr, 9 km/hr (4) 15 km/hr, 9 km/hr
  - (5) None of these
- 38. Two trains A and B start from Lucknow and Delhi towards Delhi and Lucknow respectively. After passing each other they take 4 hours and 9 hours to reach Delhi and Lucknow respectively. If the train from Lucknow is moving at 60 km/hr. Then find the speed of the other train.
  - (1) 40 km/hr.
- (2) 30 km/hr.
- (3) 35 km/hr.

- (4) 50 km/hr.
- (5) None of these
- 39. The speeds of two trains are in the ratio of 2 : 3. They are moving on the opposite directions on parallel tracks. The first train crosses a telegraph pole in 10 seconds whereas the second train crosses the pole in 15 seconds. Find the time taken by the trains to cross each other completely.
  - (1) 23 sec.
- (2) 14 sec.
- (3) 13 sec.

- (4) 16 sec.
- (5) None of these
- 40. A train with 36 km/hr. crosses a bridge in 18 seconds. Another train 90 metres shorter crosses the same bridge at 27 km/hr. Find the time taken by the second train to cross the bridge.
  - (1) 20 sec.
- (2) 18 sec.
- (3) 16 sec.

- (4) 12 sec.
- (5) None of these

## TRAIN

**1.** (1) **2.** (3) **3.** (1) **4.** (1) **5.** (2) **6.** (2) **7.** (2) **8.** (4) **9.** (2) **10.** (3) **11.** (3) **14.** (2) **15.** (3) **16.** (1) **17.** (2) **19.** (1) 20. **12.** (1) **13.** (1) **18.** (3) (1) **22.** (1) **21.** (4) **23.** (2) **24.** (2) **25.** (2) **26.** (1) **27.** (1) **28.** (1) **29.** (1) **30.** (3)**31.** (4) **32.** (3) **33.** (3) **34.** (1) **35.** (1) **36.** (1) **37.** (1) **38.** (1) **39.** (3) 40. (4)