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1. A man riding a bicycle, completes one lap of a circular field along its circumference at the speed of 14.4 km/h in 1 min 28 s. What is the radius of the field? [IBPS Clerk 2011]

- (a) 56 m
- (b) 32 m
- (c) 24 m
- (d) Cannot be determined
- (e) None of these

2. To travel a distance of 720 km, a bike takes 6 h more than car. If however, the speed of the bike is doubled, it takes 2 h less than car. The speed of car is

[SSC CGL 2017]

- (a) 60 km/h
- (b) 72 km/h
- (c) 66 km/h
- (d) 78 km/h

3. A man travels 360 km in 4 h, partly by air and partly by train. If he had travelled all the way by air, he would have saved $\frac{4}{5}$ of the time he was in train and would have arrived at his destination 2 h early. Find the distance he travelled by train?

- (a) 75 km
- (b) 90 km
- (c) 85 km
- (d) 80 km

4. Pranav went to the bank at the speed of 60 km/h, while returning his home he covered the half of the distance at the speed of 10 km/h but suddenly he realised that he was getting late so he increased the speed and reached the home by covering

rest half of the distance at the speed of 30 km/h. The average speed of the Pranav in the whole length of journey was

[IB Security Assist. 2017]

- (a) 24 km/h
- (b) 14 km/h
- (c) 16 km/h
- (d) 10 km/h

5. A certain distance is covered by a cyclist at a certain speed. If a jogger covers half the distance in double the time, the ratio of the speed of the jogger to that of the cyclist is

[SSC CGL 2013]

- (a) 1 : 4
- (b) 4 : 1
- (c) 1 : 2
- (d) 2 : 1

6. A car starts running with the initial speed of 40 km/h with its speed increasing every hour by 5 km/h. How many hours will it take to cover a distance of 385 km?

[SSC MTS 2014]

- (a) 8h 2
- (b) 9h 2
- (c) 9 h
- (d) 7 h

7. The ratio of the speed of a bus to that of a train is 15: 27. Also, a car covers a distance of 720 km in 9 h. The speed of the bus is three-fourth the speed of the car. How much distance will the train cover in 7 h?

[Allahabad Bank PO 2011]

- (a) 760 km
- (b) 756 km
- (c) 740 km
- (d) Cannot be determined

(e) None of these

8. A bus reached its destination in 12 h at $\frac{2}{3}$ of its average speed. The time taken to reach its destination at its average speed is

[SSC Constable 2012]

(a) 8 h (b) 9 h
(c) 10 h (d) 12 h

9. A certain distance is covered at a certain speed. If one-fourth of this distance is covered in double the time, then the ratio of the two speeds is

[SSC CGL 2013]

(a) 8:1 (b) 1:4
(c) 2:1 (d) 1:8

10. The average speed of a bus is 67 km/h. The bus was scheduled to start at 12 pm. It was scheduled to reach a destination of 335 km away from its starting point at 7 pm and a halt was scheduled on the way. For how long was the halt scheduled?

[UCO Bank Clerk 2011]

(a) 3 h (b) 2 h
(c) 4 h (d) 1 h
(e) Cannot be determined

11. Ram walks at a speed of 12 km/h. Today the day was very hot so walked at $5/6$ of his average speed and arrived his school 10 min late. Find the usual time he takes to

cover the distance between the school and home?

[Delhi Police MTS 2017]

(a) 40 min (b) 45 min
(c) 50 min (d) 55 min

12. A student walking $5/7$ of his usual speed reaches school 20 min late. What will be his usual time?

(a) 60 min (b) 30 min
(c) 40 min (d) 50 min

13. A man travels 600 km by train at 80 km/h, 600 km by ship at 30 km/h, 500 km by aeroplane at 400 km/h and 300 km by car at 60 km/h. What is the average speed (km/h) for the entire distance?

[SSC MTS 2017]

(a) 63 (b) $62\frac{7}{27}$
(c) $56\frac{7}{27}$ (d) $59\frac{7}{27}$

14. The driver of an ambulance observes a bus 40 m ahead of him, after 20 s, the bus is 60m behind. If the speed of the ambulance is 30 km/h, what is the speed of the bus?

[IB Security Assist. 2017]

(a) 10 km/h (b) 12 km/h
(c) 15 km/h (d) 22 km/h

15. A motorcyclist covered two-thirds of a total journey at his usual speed. He covered the remaining distance at three-fourth of his usual speed. As a result, he arrived 30



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22. Ajay covers a certain distance with his own speed but when he reduces his speed by 10km/h, his time duration for the journey increases by 40 h, while if, he increases his speed by 5 km/h from his original speed, then he takes 10 h less than the original time taken. Find the distance covered by him. [IB Security Assist. 2017]

(a) 1000 km (b) 1200 km
(c) 1500 km (d) 1800 km

23. Walking at $\frac{3}{4}$ th of usual speed, a man is $1\frac{1}{2}$ h late. His usual time to cover the same distance, is

(a) $4\frac{1}{2}$ h (b) 4 h
 (c) $5\frac{1}{2}$ h (d) 5 h

24. Two towns A and Bare 500 km apart. A bus starts at 8 am from A towards Bat a speed of 70 km/h. At 10am another bus starts from B towards A at a speed of 110 km/h. When will the two buses meet?

[SSC CPO 2009]

(a) 1 pm **(b) 12 noon**
 (c) 12 : 30 pm (d) 1 : 30 pm

25. Two places R and S are 800 km apart from each other. Two persons start from R towards S at an interval of 2 h whereas A leaves R for S before B. The speeds of A and B are 40 km/h and 60 km/h respectively. B overtakes A at M, which is on the way from

R to S. What is the distance from R, where B overtakes A? [IB Security Assist. 2017]

(a) 260 km (b) 235 km
 (c) 240 km (d) 300 km

26. A man covers a certain distance on scooter. If he moved 3 km/h faster, he would have taken 40 min less. If he had moved 2 km/h slower, he would have taken 40 min more. The distance (in km) is

[SSC MTS 2013]

(a) 42.5 (b) 36
(c) 37.5 (d) 40

27. Buses start from a bus terminal with a speed of 20 km/h at intervals of 10 min. What is the speed of a man coming from the opposite direction towards the bus terminal, if he meets the buses at intervals of 8 min? [SSC CGL 2010]

(a) 3 km/h (b) 4 km/h
(c) 5 km/h (d) 7 km/h

28. Jignesh had to cover a certain distance in a certain duration of time. He travelled at 80% of the average speed required for 60% of the time. For the remaining 40% of the time, he needed to travel at% of the average speed required.

[RRB Group D 2018]

(a) 115 **(b) 130**
 (c) 125 (d) 120



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29. Two places A and B are 100 km apart. One car starts from A and another from B at the same time. If the cars travel in the same direction at a constant speed, they meet in 5 h. If the cars travel towards each other, they meet in 1 h. What is the speed of the car running faster?

[SSC CGL 2010]

- (a) 60 km/h
- (b) 50 km/h
- (c) 40 km/h
- (d) 32 km/h

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