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Vedic Mathematics

1) Two persons drive towards each other from two places which are 56 km apart. The speed of first person is 12 km/h and speed of the other is 14km/h. After how long will they be 4 km apart if they start driving together?

a) 1 hour b) 1 hour 30 minutes
c) 2 hours d) 2 hours 10 minutes

2) Anil goes to his office at the speed of 35 km/hr and returns to his home at the speed of 30 km/hr. If he takes total 39 hours, then what is the distance between his office and home?

a) 420 km b) 525 km
c) 630 km d) 210 km

3) A person crosses a 600 m long street in 5 minutes, What is his speed in km per hour?

a) 3.6 b) 7.2
c) 8.4 d) 10

4) A thief is noticed by a policeman from a distance of 200 m. The thief starts running and the policeman chases him. The thief and the policeman run at the rate of 10 km and 11 km per hour respectively. What is the distance between them after 6 minutes?

a) 100 m b) 150 m
c) 190 m d) 200 m

5) The speed of a car increases by 2 kms after every one hour. If the distance travelling in the first one hour was 35 kms. what was the total distance travelled in 12 hours?

a) 456 kms b) 482 kms
c) 552 kms d) 556 kms

6) A man on tour travels first 160 km at 64 km/hr and the next 160 km at 80 km/hr. The average speed for the first 320 km of the tour is

a) 35.55 km/hr b) 36 km/hr
c) 71.11 km/hr d) 71 km/hr

7) Two trains A and B start simultaneously in the opposite direction from two points P and Q and arrive at their destinations 16 and 9 hours respectively after their meeting each other. At what speed does the second train B travel if the first train travels at 120 km/h

a) 90 km/h b) 160 km/h
c) 67.5 km/h d) None of these

8) The ratio between the speeds of two trains is 7: 8. If the second train runs 400 kms in 4 hours, then the speed of the first train is ?

a) 83.5 km/hr b) 84.5 km/hr
c) 86.5 km/hr d) 87.5 km/hr

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9) How long will a boy take to run round a square field of side 35 meters, If he runs at the rate of 9 km/hr?

a) 50 sec b) 52 sec
c) 54 sec d) 56 sec

10) The distance of the college and home of Rajeev is 80km. One day he was late by 1 hour than the normal time to leave for the college, so he increased his speed by 4km/h and thus he reached to college at the normal time. What is the changed (or increased) speed of Rajeev?

a) 28 km/h b) 30 km/h
c) 40 km/h d) 20 km/h

11) A man walking at the rate of 5 km/hr crosses a bridge in 15 minutes. The length of the bridge (in metres) is

a) 600 b) 750
c) 1000 d) 1250

12) Akash leaves mumbai at 6 am and reaches Bangalore at 10 am . Prakash leaves Bangalore at 8 am and reaches Mumbai at 11:30 am. At what time do they cross each other?

a) 10 am b) 8:32 am
c) 8:56 am d) 9:20 am

13) A man traveled from the village to the post-office at the rate of 25 kmph and walked back at the rate of 4 kmph. If the whole journey took 5 hours 48 minutes, find the distance of the post-office from the village ?

a) 40 km b) 30 km
c) 20 km d) 10 km

14) Two trains starting at the same time from two stations 200 km apart and going in opposite directions cross each other at a distance of 110 km from one of the stations. What is the ratio of their speeds?

a) 9 : 20 b) 11 : 9
c) 11 : 20 d) None of these

15) Two persons start running simultaneously around a circular track of length 300 m from the same point at speeds of 15 km/hr and 25 km/hr. When will they meet for the first time any where on the track if they are moving in opposite directions ?

a) 27 sec b) 31 sec
c) 23 sec d) 29 sec

16) An employee may claim Rs. 7.00 for each km when he travels by taxi and Rs. 6.00 for each km if he drives his own car. If in one week he claimed Rs. 595 for traveling 90 km. How many kms did he travel by taxi ?

a) 55 kms b) 35 kms
c) 25 kms d) 65 kms

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17) With an average speed of 40 km/hr, a train reaches its destination in time. If it goes with an average speed of 35 km/hr, it is late by 15 minutes. Find the length of the total journey?

a) 70 kms b) 60 kms
c) 45 kms d) 30 kms

18) A train overtakes two girls who are walking in the opposite direction in which the train is going at the rate of 3 km/h and 6km/h and passes them completely in 36 seconds and 30 seconds respectively. The length of the train is:

a) 120m b) 150m
c) 125m d) None of these

19) The distance between two cities A and B is 330 Km. A train starts from A at 8 a.m. and travel towards B at 60 km/hr. Another train starts from B at 9 a.m and travels towards A at 75 Km/hr. At what time do they meet?

a) 10 a.m b) 10.30 a.m
c) 11 a.m d) 11.30 a.m

20) Two boys starting from the same place walk at a rate of 5kmph and 5.5kmph respectively. What time will they take to be 8.5km apart, if they walk in the same direction?

a) 15 hours b) 16 hours
c) 17 hours d) 18 hours

21) A person takes 20 minutes more to cover a certain distance by decreasing his speed by 20%. What is the time taken to cover the distance at his original speed ?

a) 1hr b) 1 hr 20 min
c) 1 hr 10 min d) 50 min

22) The number of degrees that the hour hand of a clock moves through between noon and 2.30 in the afternoon of the same day is

a) 720 b) 180
c) 75 d) 65

23) A man covers a distance of 1200 km in 70 days resting 9 hours a day, if he rests 10 hours a day and walks with speed 1½ times of the previous in how many days will he cover 840 km ?

a) 39 days b) 37 days
c) 35 days d) 33 days

24) A man whose speed is 4.5 kmph in still water rows to a certain upstream point and back to the starting point in a river which flows at 1.5 kmph, find his average speed for the total journey ?

a) 5 kmph b) 7 kmph
c) 3 kmph d) 4 kmph

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25) The distance from town A to town B is five miles. C is six miles from B. Which of the following could be the maximum distance from A to C?

a) 11 b) 8
c) 2 d) 4

26) Excluding stoppages, the average speed of a bus is 60 km/hr and including stoppages, the average speed of the bus is 40 km/hr. For how many minutes does the bus stop per hour ?

a) 2 hrs b) 20 min
c) 40 min d) 30 min

27) A Person X started at 3 hours earlier at 40km/h from a place P, then another person Y followed him at 60km/h. Started his journey at 3 O'clock, afternoon. What is the diference in time when X was30 km ahead of Y and when Y was 30 km ahead of X?

a) 2h b) 3h
c) 3.5h d) 4.25h

28) P is faster than Q. P and Q each walk 24 km. The sum of their speeds is 7 km/hr and the sum of times taken by them is 14 hours. Then, P's speed is equal to ?

a) 3 km/hr b) 4 km/hr
c) 5 km/hr d) 6 km/hr

29) Two men A and B start from place X walking at 4 ½ kmph and 5 ¾ kmph respectively. How many km apart they are at the end of 3 ½ hours if they are walking in the same direction ?

a) 2 9/7 km b) 3 7/5 km
c) 1 3/4 km d) 4 3/8 km

30) A train covers a distance in 50 minutes, if it runs at a speed of 48kmph on an average. Find the speed at which the train must run to reduce the time of journey to 40 minutes.

a) 50 km/hr b) 60 km/hr
c) 65 km/hr d) 70 km/hr

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