**SPEED**

**LOD 1**

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|  | A person walks at 5kmph for 6hr and at 4kmph for 12hr. The average speed is?  A. 4 (1/3) B. 7 (2/3)  C. 9 ½ km D. 8 km |
|  | An athlete runs 200 metres race in 24 seconds. His speed is?  A. 20 km/hr B. 30 km/hr  C. 28.5 km/hr D. 24 km/hr |
|  | 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 time the jogger to that of the cyclist is?  A. 1:2 B. 2:1 C. 1:4 D. 4:1 |
|  | Find the time taken by a bullock cart to cover a distance of 0.9 km moving at a speed of 0.25 m/s.  A. 3h B. 2h C. 1h D. 5h |
|  | A cyclist covers a distance of 750 m in 2 min 30 sec. What is the speed in km/hr of the cyclist?  A. 18 km/hr B. 29 km/hr  C. 34 km/hr D. 54 km/hr |
|  | 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 |
|  | A train moves with a speed of 108 kmph. Its speed in metres per second is  A. 24 B. 28 C. 30 D. 32 |
|  | If a man runs at 3 m/s. How many km does he run in 1hr 40 min  A. 18 km B. 7 km C. 12 km D. 17 km |
|  | The ratio between the speeds of two trains is 7 : 8. If the second train runs 400 km in 4 hours, then the speed of the first train is:  A. 70 km/hr B. 75 km/hr  C. 84 km/hr D. 87.5 km/hr |
|  | Sachin can cover a distance in 1hr 24min by covering 2/3 of the distance at 4 kmph and the rest at 5kmph.the total distance is?  A. 5km B. 6km C. 7km D. 8km |
|  | If train runs at a speed of 48 kmph on an average, a train cover a distance in 50 min, the train must run to reduce the time of journey to 40 min will be, at which speed?  A. 45 kmph B. 60 kmph  C. 75 kmph D. None |
|  | A travels from B to C a distance of 250 miles in 5.5 hours. He returns to B in 4 hours 40 minutes. His approximate average speed is?  A. 44 B. 46 C. 48 D. 50 |
|  | Walking at the rate of 4 kmph a man cover certain distance in 2hr 45 min. running at a speed of 16.5 kmph the man will cover the same distance in?  A. 12 min B. 25 min  C. 40 min D. 60 min |
|  | An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in 1 2/3 hours, it must travel at a speed of?  A. 300 kmph B. 360 kmph  C. 600 kmph D. 720 kmph |
|  | 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 |
|  | Walking at the rate of 4kmph a man cover certain distance in 2hr 45 min. running at a speed of 16.5 kmph the man will cover the same distance in min.?  A. 12 min B. 25 min  C. 40 min D. 60 min |
|  | A person travels equal with speeds of 3 km/hr, 4 km/hr and 5 km/hr and takes a total time of 47 minutes. The total distance (in km) is?  A. 2 B. 3 C. 4 D. 5 |
|  | A train covers a distance of 10 km in 12 minutes.If its speed is decreased by 5 km/hr the time taken by it to cover the same distance will be?  A. 10 min B. 11 min 20 sec  C. 13 min D. 13 min 20 sec |
|  | A train travels at an average o f 50 miles per hour for 5/2 hours and then travels at a speed of 70 miles per hours for 3/2 hours. How far did the train travel in the entire 4 hours?  A. 120 miles B. 150 miles  C. 200 miles D. 230 miles |
|  | A truck covers a distance of 550 m in 1 minute whereas a bus covers a distance of 33 kms in 45 minutes. The ratio of their speeds is?  A. 3:4 B. 4:3 C. 3:5 D. 8:9 |
|  | A man can reach a certain place in 30 hours. If he reduces his speed by 1/15th, he goes 10 km less in that time. Find his speed?  A. 4 km/hr B. 5 km/hr  C. 11/2 km/hr D. 6 km/hr |
|  | An aeroplane flies along the four sides of a square at the speeds of 200,400,600 and 800 km/hr. find the average speed of the plane around the field?  A. 234 km/hr B. 384km/hr  C. 342 km/hr D. 213 km/hr |
|  | A dog takes 4 leaps for every 5 leaps of a hare but 3 leaps of a dog are equal to 4 leaps of the hare. Compare their speeds.  A. 12:13 B. 16:15  C. 34:23 D. 2:3 |
|  | How long will a boy take to run round a square field of sides 35 metres, the length of the rate of 9 km/hr?  A. 50 sec B. 52 sec  C. 54 sec D. 56 sec |
|  | A man travels on a car from x to y at a speed of 77 km/h and returns back at 33km/h from y to x. find the average speed of the journey?  A. 3.4km/h B. 34.45km/h  C. 46.2km/h D. 45.7km/h |

**LOD 2**

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|  | In covering a distance of 30 km, Sachin takes 2 hours more than Rohit. If Sachin doubles his speed, then he would take 1 hour less than Rohit. Sachin speed is:  A. 5 kmph B. 16 kmph  C. 21 kmph D. 25 kmph |
|  | Excluding stopages, the speed of a bus is 54 kmph and including stopages, it is 45 kmph. For how many minutes does the bus stop per hour?  A. 4 B. 6 C. 8 D. 10 |
|  | A snail is at the bottom of a 20 meters deep pit. Every day the snail climbs 5 meters upwards, but at night it slides 4 meters back downwards. How many days does it take before the snail reaches the top of the pit?  A. 4 days B. 8 days C. 16 days D. 20 days |
|  | A farmer travelled a distance of 61 km in 9 hours. He travelled partly on foot @ 4 km/hr and partly on bicycle @ 9 km/hr. The distance travelled on foot is?  A. 14 km B. 15 km C. 16 km D. 17 km |
|  | If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is?  A. 50 km B. 56 km C. 70 km D. 80 km |
|  | A man completes a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km?  A. 220 km B. 224 km  C. 230 km D. 234 km |
|  | A car travelling with 5/7 of its actual speed covers 42 km in 1 hr 40 min 48 sec. find the actual speed of the car?  A. 17(6/7) km/hr B. 25 km/hr  C. 30 km/hr D. 35 km/hr |
|  | Robert is travelling on his cycle and has calculated to reach point A at 2 P.M. if he travels at 10 kmph, he will reach there at 12 noon if he travels at 15 kmph. At what speed must he travel to reach A at 1 P.M.?  A. 8 kmph B. 11 kmph  C. 12 kmph D. 14 kmph |
|  | It takes eight hours for a 600 km journey, if 120 km is done b y train and the rest by car. It takes 20 minutes more, if 200 km is done by train and the rest by car. The ratio of the speed of the train to that of the cars is ?  A. 2 : 3 B. 3 : 2 C. 4 : 3 D. 3 : 4 |
|  | Two stations A and B are 110 km apart on a straight line. One train starts from A at 7 a.m. and travels towards B at 20 kmph. Another train starts from B at 8 a.m. and travels towards A at a speed of 25 kmph. At what time will they meet?  A. 9 a.m. B. 10 a.m.  C. 10.30 a.m. D. 11 a.m. |
|  | 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. 17 hrs B. 25 hrs  C. 31 hrs D. 45 hrs |
|  | A salesman travels a distance of 50km in 2 hours and 30 minutes. How much faster in kilometres per hour, on an average, must he travel to make such a trip in 5/6 hour less time?  A. 10 B. 20 C. 30 D. None of these |
|  | The speed of a car increases by 2 kms after every one hour. If the distance travelled 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 |
|  | An express train travelled at an average speed of 100 km/hr stopping for 3 minutes after every 75 km. How long did it take to reach its destination 600 km from the starting point?  A. 6 hrs 21 min B. 6 hrs 24 min  C. 6 hrs 27 min D. 6 hrs 39 min |
|  | Walking 6/7th of his usual speed, a man is 12 minutes too late. The usual time taken by him to cover that distance is?  A. 1 hours B. 1 hours 12 min.  C. 1 hr 15 min D. 1 hr 20 min |
|  | A motres car starts with the speed of 70 km/hr with its speed increasing every two hours by 10 kmph. In how many hours will it covers 345 km?  A. 9/4 hrs B. 4 hrs 5 min  C. 9/2 hrs D. None of these |
|  | A train does a journey without stopping in 8 hours. If it had travelled 5 km an hour faster, it would have done the journey in 6 hours 40 min. What is its slower speed?  A. 30 km/h B. 25 km /h  C. 34km/h D. 12 km/h |
|  | Normally it takes 3 hours for a train to run from A to B. One day, to a minor trouble, the train had to reduce the speed by 12 km/h and so it took 3/4 of an hour more than usual. What is the distance from A to B?  A. 120km B. 124km  C. 160km D. 180km |
|  | If walk at 3 km/h, I miss a train by 2 minutes. If however, I walk at 4km/h, I reach the station 2 minutes before the arrival of the train. How far do I walk to reach the station?  A. 5/7km B. 6/7km  C. 4/5km D. 3/4km |
|  | A person travelled a distance of 50 km in 8 hours. He covered a part of the distance on foot at the rate of 4 km per hour and a part on a bicycle at the rate of 10 km per hour. How much distance did he travel on foot?  A. 10 km B. 20 km  C. 30 km D. 40 km |
|  | A train travels at an average of 50 miles per hour for 2x1/2 hours and then travels at a speed of 70 miles per hour for 1x1/2 hours. How far the train did travels in the entire 4 hours?  A. 230 miles B. 120 miles  C. 150 miles D. 200 miles |

**LOD 3**

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|  | A thief goes away with a maruti car at a speed of 40 km/h. The theft has been discovered after half an hour and the owner sets off in another car at 50km/h. when will the owner overtake the thief from the start?  A. 12/5 after the left B. 5/2h after the left  C. 6/3 after the left D. 7/5 after the left |
|  | Sound is said to travel in air at about 1100 feet per second. A man hears the axe striking the tree, 11/5 seconds after he sees it strike the tree. How far is the man from the wood chopper?  A. 2629 ft B. 2197 ft  C. 2420 ft D. 2500 ft |
|  | A long distance runner runs 9 laps of a 400 meters track every day. His timings (in min) for four consecutive days are 88, 89, 96 and 87 respectively. On an average, how many meters/ minute does the runner cover?  A. 44m B. 22m C. 57m D. 40m |
|  | 125. Sound is said to travel in air at about 1100 feet per second. A man hears the axe striking the tree, 11/5 second after he sees it strike the tree. How far is the man from the wood chopper?  A. 2197 ft B. 2420 ft  C. 2500 ft D. 2629 ft |
|  | A thief is stopped by a policeman from a distance of 400 metres. When the policeman starts the chase, the thief also starts running. Assuming the speed of the thief as 10km/h and that of police man as 15km/h, how far the thief would have run, before he is overtaken?  A. 600 m B. 800 m  C. 500 m D. 200 m |
|  | A train travelling at a speed of 75 mph enters a tunnel 31/2 miles long. The train is 1/4 mile long. How long does it take for the train to pass through the tunnel from the moment the front enters to the moment the rear emerges?  A. 2.5 min B. 3 min  C. 3.2 min D. 3.5 min |
|  | A train can travel 50% faster than a car. Both start from point A at the same time and reach point B 75 kms away from A at the same time. On the way, however, the train lost about 12.5 minutes while stopping at the stations. The speed of the car is?  A. 100 kmph B. 110 kmph  C. 120 kmph D. 130 kmph |
|  | In a flight of 600 km, an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 200 km/hr and the time of flight increased by 30 minutes. The duration of the flight is?  A. 1 hour B. 2 hours C. 3 hours D. 4 hours |
|  | Two, trains one from Howrah to Patna and the other from Patna to Howrah, start simultaneously. After they meet, the trains reach their destinations after 9 hours and 16 hours respectively. The ratio of their speeds is?  A. 2 : 3 B. 4 : 3 C. 9 : 16 D. 6 : 7 |
|  | A man starts from a points B in a park. He covers 2/5th of the distance AB at a speed of 2a per hour and the remaining 3/5th of the distance AB at a speed of 3b per hour. In the time that took to travel from A to B, he could have run form A to B and back to A at a speed of 5c. then  A. 1 /a+1/b=1/c B. a+b=c  C. 2a+3b=5c D. 1/a+1/b=2/c |
|  | A train travelling at a speed of 75 mph enters a tunnel 3.5 miles long. The train is 0.25 mile long. How long does it take for the train to pass through the tunnel from the moment the front enters to the moment the rear emerges?  A. 3 min B. 3.5 min C. 2.5 min D. 3.2 min |
|  | A man covered a certain distance at some speed. Had he moved 3 kmph faster, he would have taken 40 minutes less. If he had moved 2 kmph slower, he would have taken 40 minutes more. The distance (in km) is?  A. 35 B. 36(2/3) C. 37(1/2) D. 40 |