Speed, Time and Distance

Q1. The length of Banjara mail is 120 m and that of Pali mail is 80 m. These two trains are running in the opposite direction with speeds of 40 kmph and 50 kmph respectively. The time taken by them to cross each other is _____?

A. 8 sec B. 72 sec C. 12 sec D. None of these

Q2. Two cyclists start from the same place in opposite directions. One travels east at 320 kmph and other travels west at 400 kmph. What time they will take to be 720 km apart?

A. 4h B. 3h C. 1h D. 1.5h

Q3. Bobby and Andy are 90 km away from one another. They are starting to move towards each other simultaneously, Bobby at a speed of 10 kmph and Andy at a speed of 5 kmph. If after every hour they double their speeds, what is the distance that Bobby will pass until he meets Andy?

A. 45 km B. 60 km C. 30 km D. 80 km

Q4. A kiwi is crossing a field. What is the total distance (in meters) passed by the kiwi? Consider the following two statements:
(X) The average speed of the kiwi is 2 meters per minute;
(Y) Had the kiwi walked 1 meter per minute faster than his average speed, he would have finished 40 minutes earlier.

A. Statement X alone is enough to get the answer.
B. Both statements X and Y are needed to get the answer.
C. Statement Y alone is enough to get the answer.
D. Both statements X and Y are not required to get the answer.

Q5. Ashank, when he increases his speed from 24kmph to 30 kmph, he takes one hour less than the usual time to cover a certain distance. What is the distance usually covered by Ashank?

A. 160km B. 240 km C. 120 km D. 90 km

Q6. John is faster than Pete. Pete and John walk 24 km. The sum of their speed is 7 kmph and sum of the time taken by them is 14 hours. What is John's speed?

A. 3 kmph B. 2 kmph C. 4 kmph D. 5 kmph

Q7. A Unicorn was travelling from Meluha to Hogwarts via Narnia. The Unicorn was travelling at a speed of 72 kmph. However, when taking into account the stoppage time, the average speed became 60 km/hour. How many minutes does the unicorn stop in an hour?

A. 8 min B. 12 min C. 15 min D. 10 min

Q8. Susie drove at an average rate of 50 miles per hour for two hours and then increased her average rate by 50% for the next 3 hours. Her average rate of speed for the 5 hours was t miles per hour. What is the value of t?

A. 55 mph B. 60 mph C. 65 mph D. 70 mph

Q9. A & B are traveling from X to Y. A starts at 12 pm at a speed of 63 mph. B starts at 1:30pm at a speed of 84 mph. At what time will A be 34 miles ahead of B?

A. 4:22:51 pm B. 4:42:51 pm C. 4:32:51 pm D. None of these

Q10. A man travels from his home to office at 4kmph and reaches his office 20 min later. If the speed had been 6 kmph he would have reached 10 min early. Find the distance from his home to office.

A. 4 km B. 5 km C. 6 km D. 7 km

Q11. At 12:00hrs Jamie starts to walk from his house at 6 kmph. At 13:30hrs, Paul follows him from Jamie's house on his bicycle at 8 kmph. When will Jamie be 3 km behind Paul?

A. 19:00hrs B. 18:00hrs C. 20:00hrs D. 19:30hrs

Q12. Raj drives along the perimeter of a rectangular park at 48 kmph and completes one full round in 4 minutes. If the ratio of length & breadth is 3:2, what is the dimension of the rectangle?

A. 660 m B. 760 m C. 860 m D. 960 m

Q13. In a stream running at 2 kmph, a motorboat goes 6 km upstream and back again to the starting point in 33 minutes. Find the speed of the motorboat in still water.

A. 11 kmph B. 22 kmph C. 33 kmph D. 44 kmph

Q14. Florence and Jackie are running laps on a circular quarter-mile track. If Florence completes each lap in 75 seconds and Jackie completes each lap in 90 seconds, how many laps will Jackie have run before she is passed by Florence, assuming they start at the same time?

A. 5 B. 6 C. 7 D. 8

Q15. A and B are running around a circular track of length 120 meters with speeds 12 m/s and 6 m/s in the same direction. When will they meet for the first time?

A. 25 s B. 30 s C. 10 s D. 20 s

Q16. Suresh drives along the perimeter of a square field of side 10 km. He drives along the first side at 10 kmph, along the side at 20 kmph, 3rd side at 30 kmph and 4th side at 40 kmph. Find Suresh's average speed.

A. 19.2 kmph B. 18 kmph C. 20 kmph D. 25 kmph

Q17. A travels at 40 kmph and B at 60 kmph. They are travelling towards each other and by the time they meet, B would have travelled 120 km more than A. Find the total distance.

A. 200 km B. 400 km C. 600 km D. 800 km

Q18. Ramesh can travel from City A to B is 8 hours. Suresh can travel from City B to City A in 24 hours. Ramesh started from City A to B at the same time as Suresh started from City B to A. After how many hours:

A. Will they be separated by a distance equal to half the distance between A and B?

B. Will they meet?

A. 3, 6 B. 3, 5 C. 4, 5 D. 5, 6