

Science Worksheet

Class VII

Time and Motion

Q1. Fill in the blanks:

- The basic unit of speed is _____
- A faster moving object covers _____
- If an object moving along a straight line, keeps changing its speed then _____
- A car moves with a speed of 40km/h for 15 minutes and then with a speed of 60km/h for the next 15 minutes. The total distance covered by the car is _____
- 72 km/h is same as _____
- A bus moves with a speed of 40 km/h and covers 10 km. _____ total time taken by the bus during the whole journey.
- The time interval between two consecutive sunrises is known as a _____

Q2. Which of the following are incorrect statements? Correct the all incorrect statements

- The basic unit of time is second.
- Every object moves with a constant speed.
- The time period of a given pendulum is not constant.
- An hourglass is used to measure of the Sun to computer time.
- Distance between two cities are measured in kilometers.
- The time taken by the pendulum to complete one oscillation is called its time period.
- A nanosecond is one billionth of a second.

Q3. Show the shape of the distance-time graph for the motion in the following cases:

- A car moving with a constant speed.
- A car parked on a road side.

Q4. Salma takes 15 minutes from her house to reach her school on a bicycle. If the bicycle has a speed of 2 m/s, calculate the distance between her house and the school.

Q5. The distance between two stations is 240km. A train takes 4 hours to cover this distance. Calculate the speed of the train.

Q6. A simple pendulum takes 32 s to complete 20 oscillations. What is the time period of the pendulum?