

Science Worksheet Class VII
Time and Motion

- Fill in the blanks:
 - One of the most well known periodic motion is that of a _____.
 - An object moving along a straight line with a constant speed is said to be in _____ motion.
 - A curved distance-time graph represents _____ motion.
 - Time is defined as the _____ between two events.
- A school bus covers a distance of 7200m in 1800s . calculate its speed.
- How can we determine the speed of an object from its distance-time graph?
- Explain the factors on which the time period of a simple pendulum depends.
- A car moves at a speed of 40 km/h for 15 minutes and then at a speed of 60 km/h for the next 15 minutes. Calculate the total distance covered by the car.
- Name two types of graphs other than line graphs.
 - A body moves along a path. Its distance-time graph is shown below. How much time will it take to cover 100 km distance?
- Draw the shapes of distance-time graphs for the motion in the following cases:
 - a dog running at a constant speed.
 - a stationary table
 - a car moving with non-uniform speed
- Which of the two is moving faster
 - A car going over a distance of 100 km in 5 hours, or
 - A train covering a distance of 300 km in 6 hours?
- Why do we need to measure time?
 - A dog runs behind you for 30 minutes and the distance covered by the dog is 3 km. What should be your minimum speed if dog was not able to bite you?
- Calculate the time period of pendulum which oscillates 100 times in an hour.
- Two boys ran in a race of 10 km. First boy ran with a constant speed 2 km/h for the whole race, while the second boy ran at 1 km/h for half of the race and at 5 km/h for the other half. Who won the race?
- If one wants to change the time period of a pendulum, what should be done to do so?

13. What do mean by uniform motion? Draw a distance-time graph to show uniform motion.
14. Convert the following as directed-
- 3720 km/h to m/s
 - 72 m/s to km/h
 - 100 km/h to m/s
15. Calculate the speed of the object at points A and B? At which point the speed is higher?

