## Science Worksheet Class VII
Time and Motion

1. Fill in the blanks:
   a. The SI unit of speed is _____
   b. An instrument which shows the distance travelled by a vehicle is called _____
   c. The distance travelled by a body in unit time is called _____
   d. A curve distance-time graph represents _____ motion.
   e. A motion that repeats itself at equal intervals of time is called _____.

2. A school bus takes 45 minutes to cover a distance of 27 km. Calculate its speed in km/h.

3. i. If 1 cm on a time axis shows 1 min. How many cm will show 1 hour on the axis?
   ii. Find out the points from the graph where the motion can be uniform from point to point (considering object is travelling in a straight line).
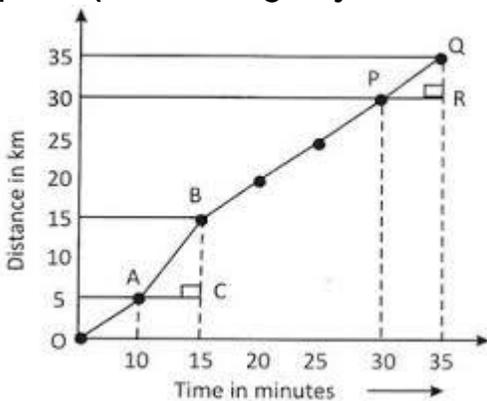

4. Name some of the instruments used in earlier times to measure time.

5. 1 cm on time axis on a distance-time graph denotes 1 hour. What is the time taken by a car whose graph shows reading 4.5 cm to cover a particular distance?

6. What do you understand by uniform motion? Give some examples of uniform motion?

7. Calculate the speed of the car between points
   (i) A and origin and   (ii) A and B whose distance-time graph is given below.
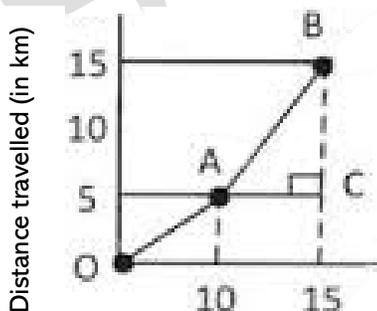
Time taken (in min)

8. Name one of the biggest pendulum clocks in the world. Where is it located? How long is its pendulum and what is its time period?

9. Why do we take average speed into consideration while calculating distance covered or time taken?

10. Show the shape of the distance-time graph for the motion in the following cases:
    (i) A bike moving with a constant speed.
    (ii) A car parked on a road side.

11. Your car moves with a speed of 40 km/h for 10 minutes and then with a speed of 60 km/h for the next 15 minutes. What is the total distance covered by the car?

12. What are the common units used to measure time?

13. What is average speed?

14. What is the definition of time? What is its necessity?

15. Write a short note on the different types of clocks used from ancient time to the present.

16. A rocket travels at a speed of 15,000m/s. Express this speed in km/h.