

**International Indian School Buraidah**

**Science Worksheet Class-7**

**Chapter#13 Motion and Time**

**Q-1 Choose the correct option-**

1. A bus travels 54 km in 90 minutes. The speed of the bus is

- (a) 0.6 m/s
- (b) 10 m/s
- (c) 5.4 m/s
- (d) 3.6 m/s

2. Nearly all the clocks make use of

- (a) straight line motion
- (b) periodic motion
- (c) random motion
- (d) circular motion

3. A simple pendulum takes 42 sec. to complete 20 oscillations. What is its time period?

- (a) 2.1 s
- (b) 4.2 s
- (c) 21 s
- (d) 8.40 s

4. Time period of a simple pendulum depends upon its

- (a) weight of bob
- (b) length
- (c) both (a) and (b)
- (d) None of these

5. Which of the following cannot be used for measurement of time?

- (a) A leaking tap
- (b) Simple pendulum
- (c) Shadow of an object during the day
- (d) Blinking of eyes

**Q-2 Fill in the blanks:**

1. The S.I unit of speed is \_\_\_\_\_.
2. Speed of a motor vehicle is measured by an instrument called \_\_\_\_\_
3. Distance travelled by a vehicle is measured by an instrument called \_\_\_\_\_

4. The metallic ball is called the \_\_\_\_\_ of the pendulum.
5. The basic unit of time is a \_\_\_\_\_.
6. A diagram showing relationship between two variable a quantities each measured along one of a pair of axes is called \_\_\_\_\_

**Q-3 Classify the following as motion along a straight line, circular or oscillatory motion:**

- (i) Motion of your hands while running.
- (ii) Motion of a horse pulling a cart on a straight road.
- (iii) Motion of a child in a merry-go-round.
- (iv) Motion of a child on a see-saw.
- (v) Motion of the hammer of an electric bell.
- (vi) Motion of a train on a straight bridge

**Q-4 A simple pendulum takes 32 s to complete 20 oscillations. What is the time period of the pendulum?**

**Q-5 The distance between two stations is 240 km. A train takes 4 hours to cover this distance. Calculate the speed of the train.**

**Q-6 The odometer of a car reads 57321.0 km when the clock shows the time 08:30 AM. What is the distance moved by the car, if at 08:50 AM, the odometer reading has changed to 57336.0 km? Calculate the speed of the car in km/min during this time. Express the speed in km/h also.**

**Q-7 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.**