

SHREE VASISHTHA VIDHYALAYA

Subject-Science

Chapter name- Measurement of length and motion(Worksheet)

A. Multiple Choice Questions (MCQs)

1. The SI unit of length is:
a) cm b) m c) km d) mm

2. A measuring tape is commonly used by:
a) Doctor b) Mason c) Carpenter d) Farmer

3. Which of the following is not a standard unit of length?
a) Cubit b) Metre c) Kilometre d) Millimetre

4. The motion of the pendulum of a clock is:
a) Rectilinear b) Circular c) Periodic d) Random

5. Which device is used to measure the thickness of a coin?
a) Scale b) Measuring tape c) Vernier calipers d) Screw gauge

6. The motion of the earth around the sun is:
a) Rectilinear motion b) Circular motion
c) Oscillatory motion d) Random motion

7. Which of the following is not an example of periodic motion?
a) Heartbeat b) Pendulum
c) Rotation of Earth d) Motion of a bus on a road

B. Fill in the Blanks

1. The SI unit of speed is _____.
2. The motion of a swing is _____ motion.
3. The scale of a map is given in _____.
4. A _____ is used for measuring small lengths like pencil or notebook.

C. One Word Answers

1. Device used by tailor to measure cloth.
2. Motion of hands of a clock.
3. The fixed unit chosen for measurement.
4. Instrument to measure the length of a curved line.
5. Motion of the tip of a moving fan blade.

D. Short Answer Questions

1. Define rectilinear motion with an example.
2. Why do we need standard units of measurement?
3. Write two examples each of circular and oscillatory motion.

E. Long Answer Questions

1. Explain different types of motion with suitable examples.
2. Describe the method to measure the length of a curved line.
3. How is the motion of Earth around the Sun and the motion of Earth on its axis different?

F. Assertion and Reason Questions

(Choose: a) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.

b) Both Assertion and Reason are true but Reason is not the correct explanation.

c) Assertion is true but Reason is false.

d) Assertion is false but Reason is true.)

1. Assertion: The pendulum of a clock shows periodic motion.

Reason: It repeats its motion after a fixed interval of time.

2. Assertion: A moving fan shows both circular and periodic motion.

Reason: The blades rotate in a fixed circular path repeatedly.

3. Assertion: Standard units are used all over the world.

Reason: They make measurements uniform and consistent.

4. Assertion: The motion of a train on a straight track is rectilinear motion.

Reason: Because it moves along a straight line path.