

Science * 11 Motion and Measurement

Q Answer the following in one or two sentences.

1. What are SI units? Give example of three.

Ans A common standard set of units used to maintain uniformity in measurements is called the International System of Units or SI unit for length, mass and time are ~~kilometer~~, kilogram and second respectively.

2. Give three fields where accurate measurement are important?

Ans The three fields where accurate measurement are important are scientific experiments, mathematics and architectural design.

3. How are straight lines measured?

Ans We measure straight lines using a ruler.

4. Define motion. Name different types of motion.

Ans An object is said to be in motion ~~when~~ when it changes its position from one place to the other ~~with~~ with respect to another object at rest.

Answer the following question in brief

1. What are periodic and non-periodic motion? Give three examples of each.
Ans. The motion of an object that is repeated at regular intervals of time is called periodic motion. The revolution of Earth around the sun, the movement of a pendulum of a clock and motion of tip of second hand of a clock are periodic motion.
When the motion of an object is not repeated at regular interval of time, it is called non-periodic motion. The flapping of a bird's wings, the motion of a fish's fins and motion of a bouncing ball on the floor are non periodic motion.

2. What is the quantity used for motion measurement called? What were the units used in ancient time for measurement?

Ans. The standard quantity used for measurement is called a unit. The units used in ancient time for measurement were as follows:

1. Cubit of hand - the length of an forearm starting from the elbow to the tip of middle.