

Name: _____ Date: _____

Motion and Time

Q1. What is the smallest time interval that can be measured with commonly available clocks and watches?

Ans. _____

Q2. What is a simple pendulum?

Ans. _____

Q3. How time was measured when pendulum clocks were not available?

Ans. _____

Q4. What are quartz clocks?

Ans. _____

Q5. What is average speed?

Ans. _____

Motion and Time

Q1. What is the smallest time interval that can be measured with commonly available clocks and watches?

Ans. The smallest time interval that can be measured with commonly available clocks and watches is one second.

Q2. What is a simple pendulum?

Ans. A simple pendulum consists of a small metallic ball or a piece of stone suspended from a rigid stand by a thread. The metallic ball is called the bob of the pendulum.

Q3. How time was measured when pendulum clocks were not available?

Ans. Many time measuring devices were used in different parts of the world before the pendulum clocks became popular. Sundials, water clocks and sand clocks are some examples of such devices.

Q4. What are quartz clocks?

Ans. Nowadays most clocks or watches have an electric circuit with one or more cells. These clocks are called quartz clocks. The time measured by quartz clocks is much more accurate than that by the clocks available earlier.

Q5. What is average speed?

Ans. Average Speed or speed is the total distance covered divided by the total time taken. Thus,

$$\text{Speed} = \frac{\text{Total distance covered}}{\text{Total time taken}}$$