



# INDIAN SCHOOL DARSAIT

## DEPARTMENT OF SCIENCE



<b>Subject :</b> Science	<b>Topic :</b> MOTION AND TIME	<b>Date of Worksheet :</b> 04 -09-2019
<b>Resource Person:</b> Mrs.Induresmi	<b>Class &amp; Division:</b> VII -----	<b>Date:</b>
<b>Name of the Student:</b>		<b>Roll Number:</b>

**A Give one word for the following (1 mark each)**

1. The standard unit of speed.
2. The name given to the metallic ball of a simple pendulum.
3. The distance covered by an object in a unit time.
4. The formula for calculating speed.
5. The SI unit of time.

**B Fill in the blanks (1mark each)**

1. The time taken by the pendulum to complete one oscillation is called -----
2. ----- is the device used to record the speed of a vehicle.
3. -----is a device used to record the distance covered by a vehicle.
4. The to and fro motion of a simple pendulum is an example of a ----- motion.
5. ----- can be found by dividing the time taken for number of oscillations by number of oscillations.

**C Answer the following**

1. Identify the ancient time measuring devices given below ( 1 mark each)



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**D Numerical problems (2 marks each)**

- 1 A cheetah runs a distance of 200 meters in 10 seconds. What is the speed of the cheetah in m/s?
- 2 The distance between two stations is 240 km. A train takes 4 hours to cover the distance. Calculate the speed of the train.
- 3 The Shatabdi express takes 6 hours to travel from New Delhi to Lucknow at a speed of 80 km/h. Find the distance between New Delhi and Lucknow.
- 4 Raj covers a total distance of 750 km in his car with an average speed of 50 km/h. How much time does he take?
- 5 A pendulum takes 32 seconds to complete 20 oscillations. What is the time period of pendulum?
- 6 Calculate the time period if a simple pendulum completes 25 oscillations in 10 seconds.

**E Distance –Time Graph ( 3 marks)**

1. Plot the distance- time graph for the given values.

Distance(m)	10	20	30	30	40	40
Time(s)	2	4	6	8	10	12

Is the motion uniform or not? Justify your answer.

2. What do the following graphs indicate? ( 1 mark each)

