INDIAN SCHOOL NIZWA - WORKSHEET

SCIENCE

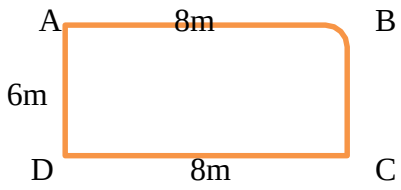
CH: 13 MOTION & TIME

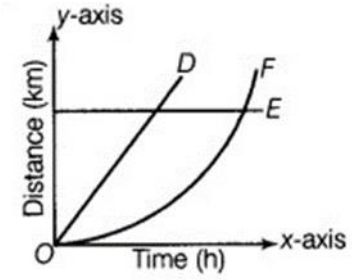
Name: _____ Date:_____ Class: VII Sec ____

I	**Fill in the blanks**
1.	_____of objects helps us to decide which one is moving faster than the other
2.	Distance covered = _____x Time.
3.	54 km/h is equal to _____ m/s.
4.	The device used to record the speed of the vehicle is _____
5.	The distance moved by the vehicle is measured by _____.
6.	A body is said to be in _____motion if it covers equal distance in equal intervals of time.
7.	The distance-time graph is a _____ graph.
8.	The distance- time graph for the motion of an object moving with a constant speed is **a** _____.
II	Answer the following.
1.	Plot a distance –time graph of a car moving with a speed of 2.5m/s
1A	

Time (s)	1	2	3	4	5
Distance (m)	2.5	5	7.5	10	12.5

Scale: X axis 1cm = 1s & Y axis – 1cm =2.5 m

2.	Starting from A, Paheli moves along a rectangular path ABCD. She takes 2 sec to traveleach side. Explain whether the motion is uniform or non-uniform. 
A	_____ _____ _____
3	Bhoojho starts walking from his house at 7 :00 AM and reaches his friend's house which is 2 km from his house at 7 :15 AM. From there he walks with his friend and covers a distance of 1km and reach the school at 7: 25 AM. Calculate his average speed. Express the speed in m/s also.
A	_____ _ _____

4.	A man covers a total distance of 200 km in his car with an average speed of 100 km/h. How much time does he take?
5	A bus reaches the destination in 90 minutes. If the speed of the bus is 10m/s, what is thedistance covered by the bus during this time duration?
6.	The following distance-time graph of three objects (D, E and F) are given. What can you say about the motion of the objects?  _____ _____ _____ _____ _____

7. **CASE STUDY-BASED QUESTION.**

While going for a school picnic, Ramu decided to note the reading on the meters on the dashboard of the bus every 30 minutes till the end of the journey. The speedometer recorded the speed directly. The odometer reads 2552 km initially. After 30 minutes the odometer reads 2574 km. On reaching the destination after one hour, the odometer reads 2605 km.

a. What is an odometer?
_____

b. Find the distance covered by the bus in the first 30 minutes.
_____

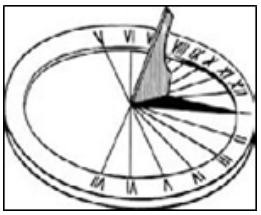
c. What is the unit by which the speedometer records speed? _____

8. Write down the definitions for a day, a month and a year in the ancient period.
_____
_____
_____
_____
_____
_____

9. Classify the following as rectilinear, circular or oscillatory motion.
i. Motion of a child in a merry-go-round. ii. Bullock cart moving on a straight road.

i. Motion of a child in a merry-go-round-_____.
ii. Bullock cart moving on the straight road- _____.

10. Identify the time-measuring device given below. What was the principle behind working of the device?



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