Name: _____ Date: _____

Motion and Measurement of Distances

Q1. "Pace or footstep cannot be used as standard unit of length". Comment

Ans. _____

_____

_____

_____

_____

Q2. Distance between Ayush's home and his office is 14.5 km. How much
time will he take to reach his workplace if he is travelling by a car with a
speed of 30,000 m/hr.?

Ans. _____

_____

_____

_____

Q3. How invention of wheel made a great change in modes of transport?

Ans. _____

_____

_____

_____

_____

Motion and Measurement of Distances

Q1.   "Pace or footstep cannot be used as standard unit of length". Comment

Ans.   The size of foot varies from one person to another. Length measured by footsteps of two different persons may not be equal. Thus foot step is not a fixed quantity as it differs from person to person. Hence, it cannot be used as standard unit of length.

Q2.   Distance between Ayush's home and his office is 14.5 km. How much time will he take to reach his workplace if he is travelling by a car with a speed of 30,000 m/hr.?

Ans.   14.5 km = 14.5 x 1000 = 14500m

Car covers 30,000m in 1 hr.

Car covers 1m in 1/30,000 hr.

Car covers 14500m in 1/30,000 x 14500 = 0.4833 hrs.

= 0.4833 x 60 = 29 minutes

Q3.   How invention of wheel made a great change in modes of transport?

Ans.   The invention of wheel brought in a great change in the modes of transport. People employed carts and chariots to travel from one place to another. It made the transportation of goods and people much easier. Modern means of transport such as cars, buses, trains and airplanes allow us to travel faster than those used in earlier times.