



Provincial Department Of Education-Sabaragamuwa-Week School

Week- 13th Week - 17th-23rd Jan, 2021

Subject- Science

Grade - 10

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1) Fill in the blanks of the following statements regarding distance, displacement, speed, acceleration, velocity.

- The shortest length between initial point and final point along a certain direction when an object is moving is.....
- The length of the path of a certain object, when an object is moving is.....
- The distance moved by an object in unit time is
- The rate of change of distance is
- The rate of change of velocity is

2) Following represents the data of the movement of an object in 4 seconds. Complete the following statements using this data.

Time (s)	0	1	2	3	4
Distance(m)	0	5	10	15	20

- The distance moved in 1st second =
- The distance moved in 2nd second =
- The distance moved in 3rd second =
- The distance moved in 4th second =

- This expresses that the object travels same distance in every second. This is known as Or

3) Following represents the data of the movement of a motor vehicle in 4 seconds. Complete the following statements using this data.

Time (s)	0	1	2	3	4
Distance(m)	0	4	5	8	12

- The distance moved in 1st second =
- The distance moved in 2nd second =
- The distance moved in 3rd second =
- The distance moved in 4th second =

- This expresses that the object does not travel same distance in every second. Thus the object has travelled not in
- Here, the distance travelled is m. Time spend for that is
- The average speed is found in this situation.
- Find the speed of the above object.

4) Following represents the data of the movement of a push cycle. Complete the following statements using this data.

Time (s)	0	1	2	3	4
displacement (m)	0	10	20	30	40

- (i) The displacement in 1st second =
- (ii) The displacement in 2nd second =
- (iii) The displacement in 3rd second =
- (iv) The displacement in 4th second =

- The displacement of the object in every second has increased in amount. Therefore, it is said that the object has travelled in constant velocity or uniform velocity.
- The direction of velocity as well as the of an object which moving in constant velocity

5) Following represents the data of the movement of a motor cycle. Complete the following statements using this data.

Time (s)	0	1	2	3	4	5
displacement (m)	0	7	9	15	25	50

- (i) The displacement in 1st second =
- (ii) The displacement in 2nd second =
- (iii) The displacement in 3rd second =
- (iv) The displacement in 4th second =

- The change of displacement in a second is not similar. Therefore, the motor cycle has not moved in
- The average velocity is found in this situation. Find the average velocity of motor cycle.