

1. A place or object used to determine if something is in motion is called

- a. a position
- b. a reference point
- c. a constant
- d. velocity

2. \_\_\_\_\_ is the total length of your path

- a. displacement
- b. distance
- c. velocity
- d. reference point

3. Speed tells how fast an object travels. Velocity is the speed of the object and

- a. the amount of time the object has been moving.
- b. the direction the object is moving.
- c. how far the object has traveled.
- d. the starting point of the object.

4. \_\_\_\_\_ is a unit of speed:

- a. m/s
- b. s
- c. kg
- d. hr

5. Bobby ran East, then North, then West, then South, around his block at a constant speed of 2 m/s. Which of the following statements is NOT true about Bobby's run?

- a. Bobby's velocity changed during his run.
- b. Bobby accelerated during his run.
- c. Bobby's speed increased during the run.
- d. The ground pushed on Bobby's feet with equal force that he applied to the ground.

6. The rate at which velocity changes over time.

- a. speed
- b. acceleration
- c. Newton
- d. force

7. Which best describes the motion of the object recorded in data table below?

| Time (s) | Velocity (m/s) |
|----------|----------------|
| 0        | 0              |
| 1        | 2              |
| 2        | 4              |
| 3        | 6              |
| 4        | 8              |

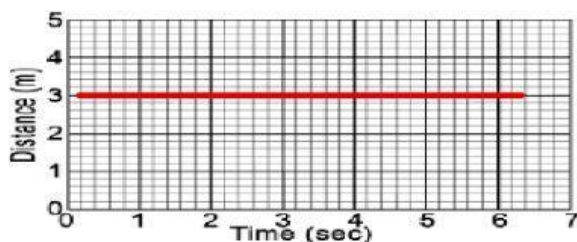
- a. it does not move
- b. it maintains a constant velocity
- c. it undergoes positive acceleration
- d. it undergoes negative acceleration

8. You travel to a city 200 km away in 2.5 hours. What is your average speed in km/hr?

- a. 180 km/hr
- b. 12.5 km/hr
- c. 80 km/hr
- d. 0.0125 km/hr

9. A horizontal line on a distance-time graph means the speed is zero.

- a. True
- b. False



10. A bicycle rider decreases his speed from 15 m/s to 5 m/s in 10 seconds. What is his rate of acceleration?

- a. 1 m/s
- b. 15m/s
- c.  $-5\text{m/s}^2$
- d.  $-1\text{m/s}^2$