# Topic: Speed, Velocity and Acceleration

## Revision Quiz

Name : _____  Grade/Year : _____  Subject :  Physics

School's Name : _____  Date : _____  Marks obtained : _____

## Choose the correct answer from 4 options and circle the correct one.

1. Which of the following is the S.I. unit of acceleration?

    A.  m/s
    B.  m/h
    C.  $m/s^2$
    D.  $km/h^2$

2. Displacement per unit time is called

    A.  speed
    B.  acceleration
    C.  velocity
    D.  average speed

3. Acceleration is defined as

    A.  The rate of distance travelled.
    B.  The rate of change of displacement.
    C.  The rate of change of distance.
    D.  The rate of change of velocity.

4. If the distance versus time graph of an object is a horizontal line, the object is

    A.  Moving with constant speed.
    B.  Moving with constant acceleration.
    C.  At rest.
    D.  Moving with zero acceleration.

5. The speed of an object at any instant of time is known as

    A.  Instantaneous speed
    B.  Average speed
    C.  Velocity
    D.  Positive speed

6. If a total distance of 750 m is covered in a time interval of 50 s, the average speed is

    A.  17m/s
    B.  15 km/h
    C.  25 mph
    D.  30 m/s

7. Which of the following is a measure of velocity?

    A.  40 s
    B.  40 East
    C.  40 m/s
    D.  40 m/s, East

8. If a person walked at a constant speed of 5 m/s for 20 s, the distance travelled would be.

    A.  4 m
    B.  6 m
    C.  90 m
    D.  none of the answers

9. If a car is travelling at a constant speed of 20 km/h and covered a distance of 60km. How long would it take?

    A.  3 hours
    B.  1 hour
    C.  5 hours
    D.  50 hours

10. The gradient of a distance versus time graph gives.

    A.  Speed
    B.  Acceleration
    C.  Distance
    D.  none of the answers