

Student Name: _____

Date: _____

Period #: _____

Unit 1: Quiz 1

Physics Vocabulary & Physical Quantities of Interest

1. Answer the questions below using words from the following list:

direction	magnitude
displacement	vector
acceleration	scalar

- a. Velocity differs from speed in that velocity indicates a particle's _____ of motion.
- b. Unlike speed, velocity is a _____ quantity.
- c. A vector has, by definition, both _____ and direction.
- d. _____ represents how an objects velocity is changing.
- e. When a person walks around the track once, returning to their starting position, their _____ is zero.
- f. Unlike velocity, speed is a _____ quantity.

2. Determine if each of the following statements is **true (T)** or **false (F)**.

_____ Speed is velocity in a given direction.

_____ The speed of a plane can be described as 300 mi/h.

_____ The velocity of a car can be described as 60 km/h to the north.

_____ Speed is a vector quantity.

_____ Velocity is a vector quantity.

3. What is acceleration?

4. Circle the letter of the value and units that represent acceleration.

a. 5 m

b. 15 m/s

c. 25 s/m

d. 15 m/s²