Ch 13-2: What are velocity and acceleration? Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Basic Physical Science Notes 2018

Key Terms:

1. Scalar: a term that describes a measurement with \_\_\_\_\_\_\_\_\_\_\_\_\_ only
2. Vector: a term that describes a measurement with both \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_
3. Distance: how \_\_\_\_\_\_ an object has traveled
4. Displacement: how far an object is from where it \_\_\_\_\_\_\_\_\_\_\_\_\_ (Point A 🡪 Point B)
5. Speed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Velocity: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Acceleration: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Short Answer:

1. Give 2 examples of a scalar measurement. Give 2 examples of a vector measurement.
2. How are distance and displacement alike? How are they different?
3. How are speed and velocity alike? How are they different? (Hint: think units)
4. What is the formula for acceleration? What are the units for acceleration?
5. What are the 3 ways a car can accelerate?
6. Why is a car accelerating when it turns a corner?
7. A car is stopped at a red light. The light turns green, and the car accelerates to a speed of 150 m/s. This takes 10 sec. What is the car’s acceleration?
8. A highway speed limit is 90 km/hr. Is this average speed or instantaneous speed? Explain.