Ch 13-1: What are motion and speed? Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Basic Physical Science Notes 2018

Key Terms:

1. Motion: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Reference point: a place or object used for comparison to determine if something is in \_\_\_\_\_\_\_\_\_\_\_\_\_
2. Scalar: a term that describes a measurement with magnitude (#) only; EX: distance, speed
3. Vector: a term that describes a measurement with both magnitude (#) and direction; EX: displacement, velocity, acceleration
4. Distance: how \_\_\_\_\_\_ an object has traveled
5. Displacement: how far an object is from where it \_\_\_\_\_\_\_\_\_\_\_\_\_ (Point A 🡪 Point B)
6. Speed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Instantaneous speed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Constant speed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Average speed: \_\_­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. Velocity: speed and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Short Answer:

1. How do you know if an object has moved even if you didn’t see it actually move?
2. Give an example of number 1.
3. Explain the difference between instantaneous speed and average speed.
4. Which is moving faster, a car traveling 150 km in 3 hours or one traveling 100 km in 2 hours? How do you know?
5. If you traveled 360 km in 4 hours, what was your average speed?
6. If a car travels at an average speed of 90 km/hr, how long will it take the car to travel 360 km?
7. A car makes a trip of 400 km in 4 hours. The return trip takes 3.5 hours. What can you infer about the average speed of the car on each of the trips?