

NAME:

PERIOD:

DATE:

MEASURING MOTION CLASSWORK 1

PART ONE: For the following statements. Circle all that are correct.

1. Motion...

- A. is always accelerating
- B. can be detected with a frame of reference
- C. can be measured

2. A frame of reference...

- A. should be small so you can see the motion
- B. should be in front of the moving object
- C. should not be moving

3. Speed...

- A. is a measurement of the force of gravity on an object
- B. is a measurement of how quickly an object changes position
- C. is a measurement of how quickly an object changes velocity



PART TWO: Match the answer with the correct measurement.

4. _____ 25 miles/hour northeast

A. acceleration

5. _____ -2.5 meters/sec/sec

B. speed

6. _____ 12 miles/hour

C. time

7. _____ 10 minutes

D. velocity

PART THREE: Do the following speed calculations. Show the formula. Make substitutions. Show your work. Label the answer. Circle the answer.

8. Angel rode her motorcycle 150 miles in 3 hours. What was her average speed?

9. Ian took 6 hours to get the 300 miles to get to Pittsburgh. What was his average speed?

10. Morgan drove his tractor for 10 hours. He covered 2 mile of his field. What was his average speed?