

Student Name: _____

Date: _____

Period #: _____

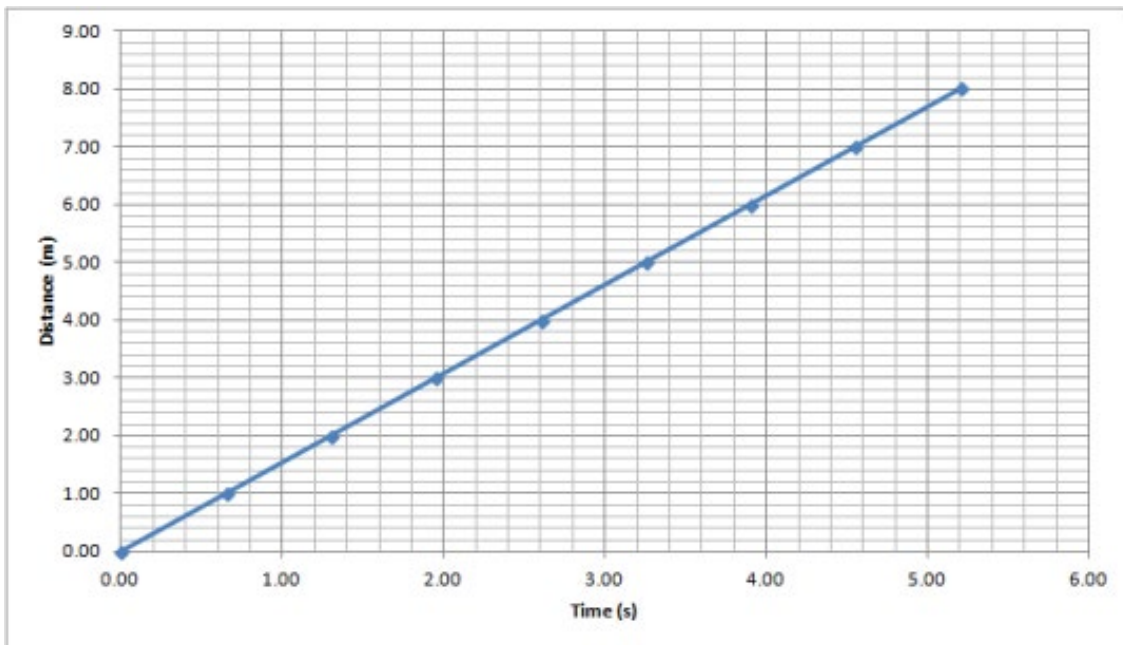
Unit 1: Quiz 10

1-Dimensional Motion

1. A study conducted by some PVHS students concluded that the reaction time (t_{reaction}) to apply the brakes for a driver moving along at a constant $70 \frac{\text{mi}}{\text{hr}}$ was 0.75 seconds and increased to 1.2 seconds while texting. How much further would a driver travel (in feet) while texting before applying the brakes?

SHOW ALL WORK

2. A group of students conducted a lab in Mr. H's class and obtained the following distance vs. time graph for a toy car.



Which of the following conclusions about the toy cars motion is correct. **EXPLAIN**

- A. The toy car is accelerating
- B. The toy car is stopping and starting
- C. The toy car is traveling at a constant velocity
- D. The toy car moved 7 meters in 4 seconds