**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Motion Graphs Practice**

*Part I: Matching Speed Graphs*

1. The object left the starting position at a constant speed, stopped in the middle, and then returned to the starting position
2. The object is not moving
3. The object’s speed is increasing
4. The object’s speed is constant and traveling away from the starting position.
5. The object’s left the starting position at a constant speed, stopped in the middle, and then continued moving farther away.
6. The object’s speed is decreasing
7. The object’s speed is constant and traveling towards the 0 distance mark

\_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_

 \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_

Which of the following graphs represents 2 objects traveling at the same speed?

 **A B C D**

*Part II: Matching Acceleration Graphs*

1. The object is not moving
2. The object starts at a constant speed and then decelerates, slowing down
3. The object has a constant speed
4. The object speeds up, reaches a constant speed, and then slows down
5. The object is speeding up, it has acceleration
6. The object starts at a constant speed and then accelerates, speeding up
7. The object is slowing down, it has deceleration
8. The object slows down, stops, and then speeds back up

\_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_



\_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_

Describe what is happening at each point on the graph below:

A: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

E: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_