NAME	DATE	PD

Acting Out Motion Scenarios and Graphs

- 1. Students will work in groups
- 2. The teacher will identify a space to allow students to move freely forward and back along a numbered line placed on the floor. (This could be a line on a tiled floor.)
- 3. Before starting, students should make predictions, explaining what they think will happen, how they will move, and why.
- 4. One student will then "Act Out" the scenario motion on the marked floor. Students should rotate jobs, allowing each student to 'feel' the motion.
- 5. Another member of the group is the time keeper, snapping the cadence at 1 second intervals of time
- 6. The rest of the students should graph each motion scenario as Distance vs. Time on the provided graphs

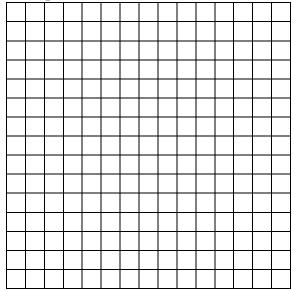
Scenario #1	Scenario #2	Scenario #3	Scenario #4
From 0, walk forward with a steady pace for 7 seconds.	From 10, Walk backward with a steady pace for 5 seconds	From 0, Walk steadily forward for 3 seconds, stop for 3 seconds, and walk forward very quickly for 3 seconds	From 0, move at an increasing rate of speed away from the origin for 8 seconds.

Answers:

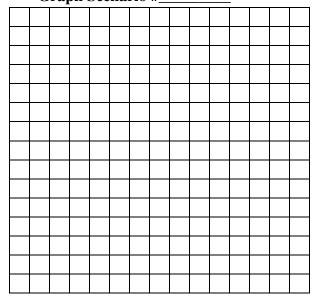
- 1. Make predictions, explaining what you think will happen during each scenario, how you will move
- 2. Draw a time / distance table for each scenario
- 3. Graph a distance vs. time data table for each scenario

3. Graph the scenarios in the following grids

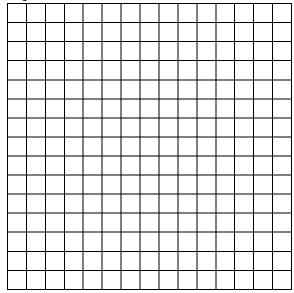




Graph Scenario #_



Graph Scenario #_



Graph Scenario #_

