

Physics 151 Worksheet #1: Average Velocity

Name: _____

Partner(s): _____

Directions : Complete the following questions based on the computer simulation. Please show all of your work and explain all of your reasoning. Place a box around your final answer.

Simulation 1: Horizontal Motion with Constant Speed

- Calculate the ball's position at a time of 4.2 seconds?

- What would the ball's position be at a time of 14.2 seconds?

- How long would it take for the ball to reach a position of $x = 34.8 \text{ m}$?

Simulation 2: Horizontal Motion with Constant Velocity - Determine the value of the unknown velocity.

Simulation 3: Horizontal Motion with Positive and Negative Velocity – Determine the value of the unknown velocity.