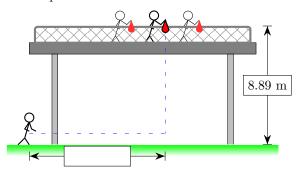
Name: Number: Date:

## Water Balloon Challenge

**Purpose:** The purpose of this lab is to hit Mr. Rohrbach with a water balloon. Mr. Rohrbach will be walking at a steady pace below the bleachers. One of your team members (the "dropper") will be standing at the top of the bleachers \_\_\_\_\_\_ meters away from his horizontal starting location. Using your kinematics knowledge, you will need to calculate at what time you should drop the balloon in order to hit Mr. Rohrbach as he walks by. The bleachers are 8.89 meters tall.

**Diagram:** Add the velocity and acceleration vectors to this diagram, indicate your positive and negative directions, and include any other helpful labels.



Calculation: Show all your calculations below. Make sure to label each calculation with what it is that you are looking for. Include knowns and unknowns and show all work.

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