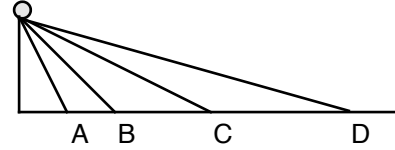


Lab 8-1: Rolling Down a Ramp

Purpose: Imagine there is a ball at the top of a hill and there are several ramps getting to the bottom, each with a different steepness. There are two questions you need to experimentally determine:



1. Does the steepness of the ramp affect the time it takes the ball to roll to the bottom, and if so, how?
2. Does the steepness of the ramp affect the final speed of the ball at the bottom of the ramp, and if so, how?

Procedure:

Describe your setup, what you measured and how you measured it.

Make sure height ~10 to 15 cm max. Make sure times are $> 1/2$ second (so keep distance $> 1/2$ m)

Data:

Make a neat data table for all your trials. Remember units.

Analysis:

Do any math that you need to do here. Explain what you are doing.

Conclusion:

So what did you find? Remember that there are two things you were asked to determine.