Ramp Lab Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_ Per:\_\_\_

*Materials: ramp, ball, meter stick, target tin*

Set a ramp up right at the edge of a table. Draw picture including labeling dy and dx.

Procedure

1. Use dy = ½ gt2 to solve for time (remember to use the lab value for gravity).
2. Use the average of many trials to get a reasonable dx measurement.
3. Solve for the nonaccelerated vi(x) .
4. Choose **several** different heights and practice calculating new dx. Only after you think you know where dx is should you put down the tin and try to hit it.
5. Give me your ball and tin. I will assign you a new height. When you have calculated where to put the tin, I will give it back to you and watch you try to get the ball in. You get one chance to land the ball in the tin for an A, 2 tries for B, etc.