Rollin' Rollin' Rollin'



Next, from the same height allow the ball to roll down the track through the photogate, but catch it before it hits the ground. Use this information to calculate the average time of the ball passing through the photogate and then the horizontal velocity. Use the distance to the floor to calculate the time of free fall. Since this is the same time that it will travel horizontally, use this time to calculate the range. Before testing your answer, place a roll of masking tape at the calculated distance and call me to see your answer.

Result:

- 1.) Did the ball hit where you expected it to?
- 2.) If it did not hit the same place, what might be some reasons why it did not?
- 3.) How could you correct for this?
- 4.) How could this be used in a real life situation? (give three applications in real life)