Note: Always credit the work of others (i.e. write your lab partner's name at the top of your report)

Measurements and associated uncertainties for:

- h1: Height of one photogate
- h2: Height of the other photogate
- x: Distance of track between photogates
- w: Track inside width
- M: Mass of racquet ball
- R: Outer radius of racquet ball.
- t: t_bar and standard deviation of t_bar for (1 Ball N times) and (N balls 1 time) trials.

Histogram: Create ONE histogram for time data for 1 ball N times. See guidelines for recommended procedure on creating your histogram. Comment on the shape and meaning of the histogram, what it says about your data, and how it agrees with your expectations. Plot of standard deviation and standard deviation of the mean as a function of trial number.

Calculations/Error Analysis:

R' (rolling radius) and its uncertainty
I (racquet ball moment of inertia) and its
uncertainty. In calculating I, you may take g to be
a constant without an uncertainty, i.e. g=9.81m/s^2
Estimate of sigma_d/d. Briefly discuss the meaning
of your result.

Estimate of N (See section 3.4 in guidelines). Briefly discuss the meaning of this result.

Conclusion: Comparison of R' and I to their expected
 values; use % error and t-scores as quantitative
 tools to support your analysis. Discuss sources of
 error that you think are not already accounted for in

your uncertainty estimates, and whether or how they may have affected your results.

NOTE: "Human error" conveys no useful information.