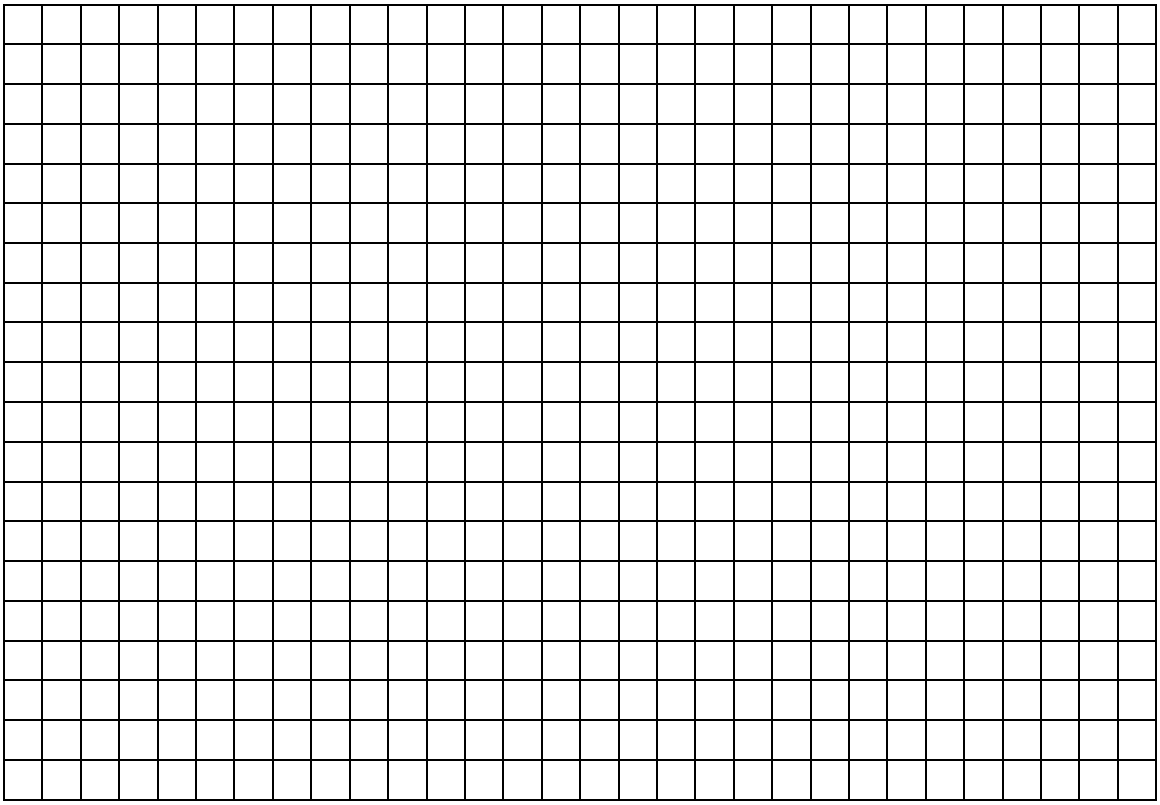
Name _____ Date _____

Ball Bounce Lab

Data:

Drop Height	Bounce Height			
	Trial 1	Trial 2	Trial 3	Average

Graph:



(*continued to back*)

After drawing a straight best-fit line for your data, determine the equation for the best-fit line. Use two points on the line (***NOT DATA POINTS!!***) to calculate the slope. Then, use that slope with one point (***NOT A DATA POINT!!***) to determine the *y*-intercept. It is okay if your graph does not go through $(0, 0)$.

Best-Fit Equation:

Prediction: Based on your best-fit equation, determine the drop height necessary to get a bounce height of _____.

Predicted Drop Height: _____

Actual Drop Height: _____

% Error: _____

$$\%\ Error = \frac{|Measured\ Bounce\ Height - Given\ Bounce\ Height|}{Given\ Bounce\ Height} \times 100$$