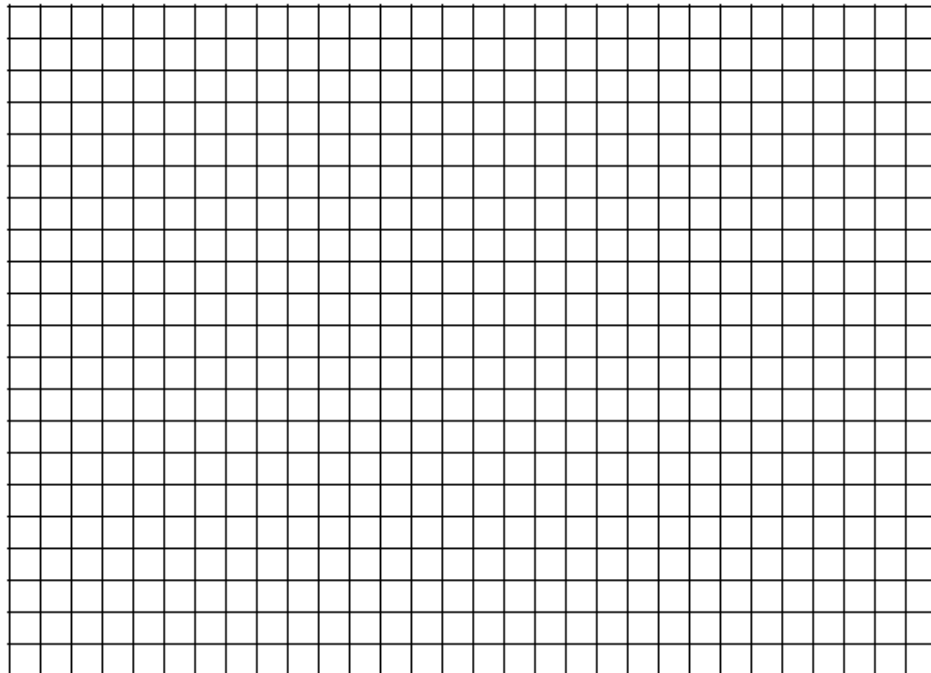


Length Exercise

1. Complete the data table for metric and English length.
 - a. Use dimensional analysis to convert units.
 - b. Be sure to show work and units.
 - c. 1 inch = 2.54 cm (this is the fraction)
2. First column of data table always represents IV (x-axis). Label axes with and units. Include descriptive title.
3. Plot data table onto graph of best fit (line graph that intersects the most points). Use a straight edge/ruler.
4. Calculate slope = $\frac{Y_2 - Y_1}{X_2 - X_1}$ (use data from table). Label as slope. Answer should be in decimal, not fraction.
5. How does the slope relate to the data?

Length (in)	Length (cm)
100	
220	
	5
	18
	2

variable



Bonus: Use the graph to convert 150 in to cm? _____