

Is there a relationship between a person's hand span and the amount of candy he/she can pick up at one time with one hand?



## MY HYPOTHESIS

What will be the independent variable?

What will be the dependent variable?

(Indep. Variable)	(Dep. Variable)

**What type of correlation is shown by the graph?**

Positive Negative No Correlation

**Draw a line of best fit on the graph.**

- Line should go through two points already graphed on the grid.
- Line should follow general trend of the data.
- Line should have about the same number of points above and below it.
- Line should be as close to the data points as possible.

**Calculate the slope of the line of best fit.**

Data Points on Line of Best Fit	
x	y

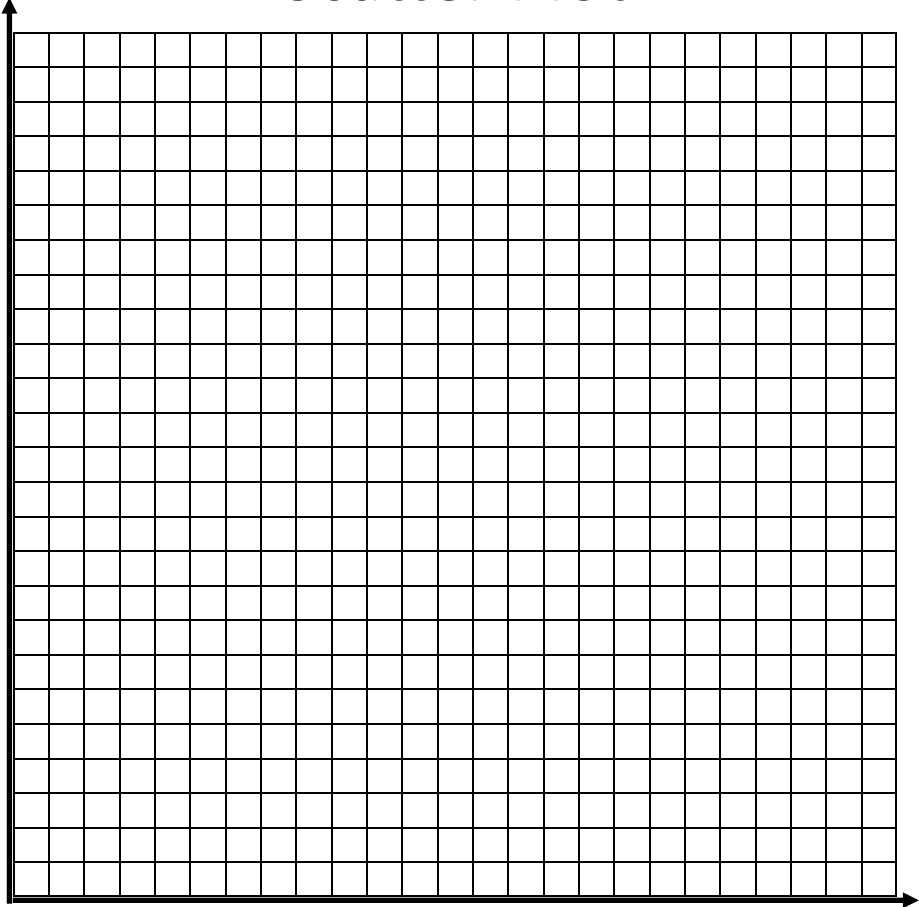
Slope (m) =  $\frac{\Delta y}{\Delta x}$  =

**Write the equation of the line of best fit using point-slope form.**

$y - y_1 = m(x - x_1)$   
 $y - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}(x - \underline{\hspace{1cm}})$

**Rearrange the equation into slope-intercept form ( $y = mx + b$ ).**

# Scatter Plot



**Use this equation to determine how many pieces of candy Mrs. Carter should be able to pick up at one time with one hand.**

**How many pieces of candy was Mrs. Carter able to pick up?**

**How trustworthy do you believe this model to be?**