Agenda

Homework:

- Line Of Best FitWS
- -CN Summary
- -AM

Materials:

- Calculator
- Ruler

DO NOW

1) On your DESK:

Create the equation for the line that passes between the points (3, 24) & (12, 18) Create the equation for the line that passes between the points (3, 24) & (12, 18)

Homework

Scatterplots WS

Set up Cornell Notes

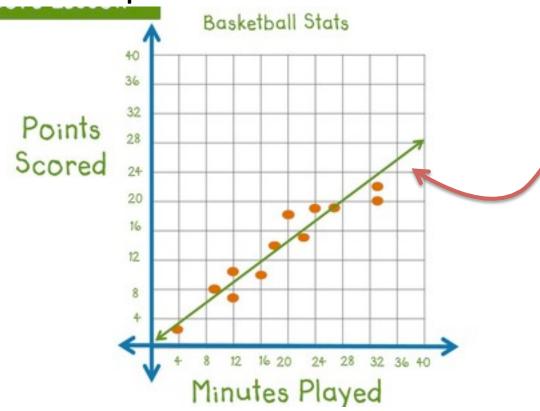
- Topic: Scatterplots Line of Best Fit Equation
- EQ: Explain how to determine the equation for the line of best fit

Update Table of Contents:

2/22/16 (Pd 1,2)	Scatterplots- Line of Best Fit
1/23/16 (Pd 4)	Equation

What is the "line of best fit"?

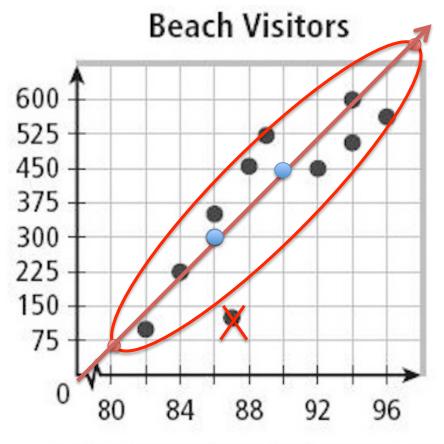
 A line that shows the trend of the collected data and used to predict unobserved data



How do you determine the equation for the "line of best fit"?

- Draw your line of best fit
- 2. Pick **two** points <u>ON</u>
 your line (Be sure you can easily find the coordinates for these points)

(86, 300) & (90, 450)



Average Daily Temperature (°F)

How do you determine the equation for the "line of best fit"?

4. Find the slope of the
$$m = y_2 - y_1 = 450 - 300 = 150 = 75$$
 two points: $x_2 - x_1 = 90 - 86 = 4 = 75$ (86, 300) & (90, 450)

5. Use one of the points
$$300 = \frac{75}{2}(86) + b$$
 and the slope to find b

$$300 = 3225 + b$$
 $-3225 = b$

6. Plug in m & b
$$f(x) = m x + b$$

Stationwork

• Worksheets