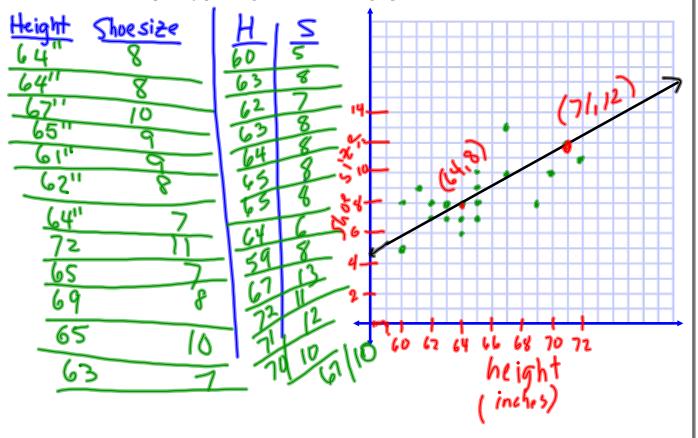
Algebra 7-7 Warm-Up 5x12=60





- 1. On the board, write your height in inches and shoe size.
- 2. Create a scatterplot by plotting the data on the graph below.



Algebra 7-7 Best Fit Lines

How to Create an Equation for a Best Fit Line

- 1. PloT the data on a coordinate plane.
- 2. **Draw** a best fit line.
- 3. Pick 2 Points on that line.
- 4. Find the Sope by M= X2-X1.
- 5. Write an <u>equation</u>.

Examples

- 1. Draw a best fit line for the data in the warm-up problem.
- 2. Write an equation that represents that line.

$$(\tilde{7}1, \tilde{7}2)$$
 $M = \frac{8-12}{64-71} = \frac{1}{2}$

$$y = \frac{4}{7} \cdot x + -28.5$$

$$8 = (\frac{4}{7})(4) + b$$

$$0 = 31.57 + b$$

3. Predict what shoe size a 7 ft. (84 in.) tall person would wear.

$$y = \frac{4}{7}(84) + -28.57$$

 $y = 19.4 \approx 19$ shoes size