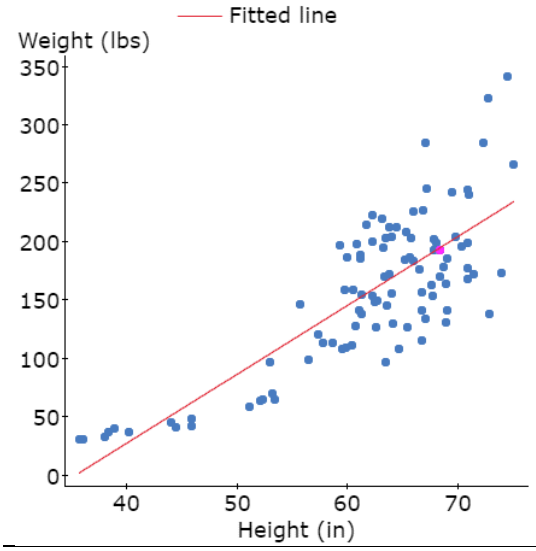
Date _____

Warm Up

R-Squared and Slope

A graph of the scatterplot and linear regression line comparing height and weight for 100 randomly selected people looks like this:



The **equation of the regression line** is:

Weight (lbs) = – 208.8 + 5.9 Height (in)

The **correlation coefficient** is:

R = 0.80

The **coefficient of determination** is:

R-sq = 0.64

1. a. What is the slope of the line? _____
   b. What does it mean in the context of this problem?

2. a. What is the coefficient of determination for this model? _____
   b. What does it mean in the context of this problem?

3. a. Do you notice anything about the shape of the data points in the scatterplot?
   b. What does that mean about our model?

MAIN IDEAS: List the Main Ideas for Today's Lesson