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What kind of correlation would you expect?

- height vs shoe size
- Amount of food you have eaten and how hungry you are
- Amount of time studying vs. test grade
- # of hours of sleep and GPA
- Days left in school in the springtime and temperature outside
- # of letters in your first name and # of letters in your last name















Is there a relationship between height and shoe size???

- To investigate this question, you are going to collect some data
- We will do separate data for guys and girls only collect data for your group
 STEPS
- Find out each guy's or girl's height in inches and shoe size and put the results in a table
- On graph paper, create a graph where the height is the x-axis and the shoe size is the y-axis
- Decide on an appropriate scale for both axes that will show the data. It looks best if your data "fills up" the entire graphing area.
- 4) Plot each person as a point in your graph.
- 5) Make some observations about the data and be prepared to share them.

Line of Best Fit

- A line that goes through the middle of the data
- Should have about the same number of dots above and below it

Line of Best Fit Application

http://illuminations.nctm.org/Activity.aspx?id=4186



















