Correlation: Relationship between two sets of data

There are three kinds of Linear Correlation

Positive Correlation

As one quantity inc so does the other. (Pos Slope)

Negative Correlation

As one quantity inc the other dec. (Neg Slope)

No Correlation

No obvious relationship between the data

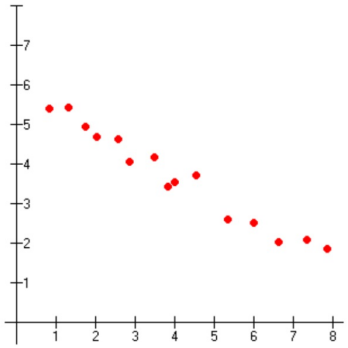
Strong Correlation

Most points are close to the trend line.

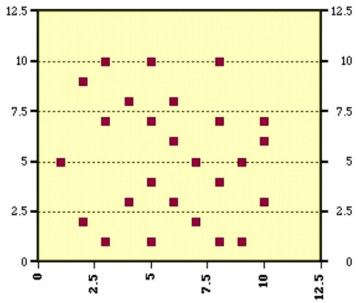
Weak Correlation

General trend but points are not all close to a trend line.

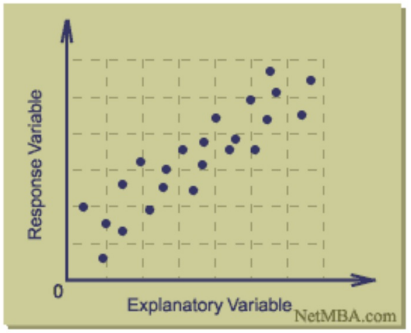
What type of correlation does each graph show?



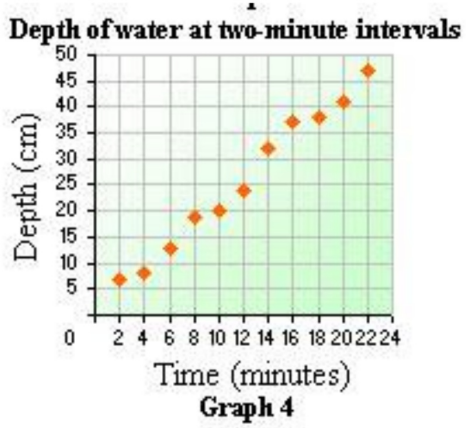
Negative Correlation, pretty Strong



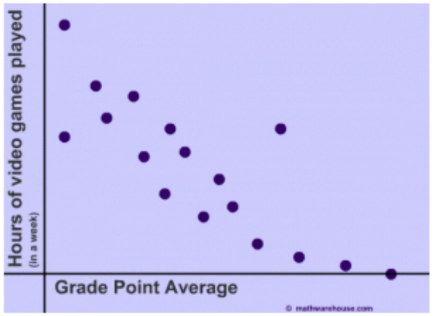
No Correlation



Positive Correlation rather Weak



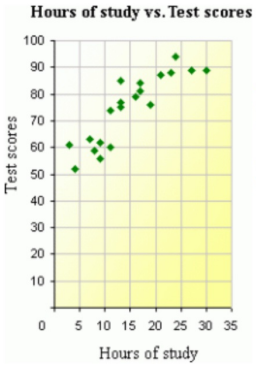
Positive Correlation
quite Strong



Negative Correlation

rather Weak

Is this a Strong or Weak Positive Correlation?

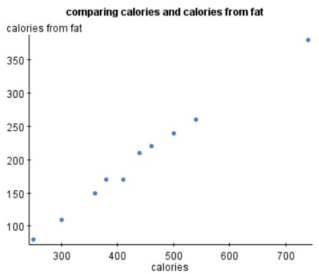


"Strong" and "Weak" are sometimes hard to define.

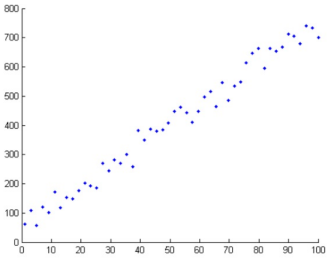
Sometimes you only use these terms when comparing two scatter plots

Which Correlation is stronger?

A



B



Graph A appears to be stronger Positive Correlation because the data seems closer to a single line than the data in graph B.

Linear Regression: Finding the equation of the "line of best fit".