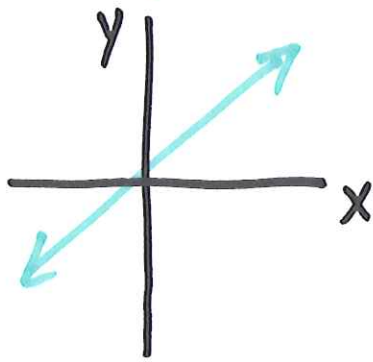


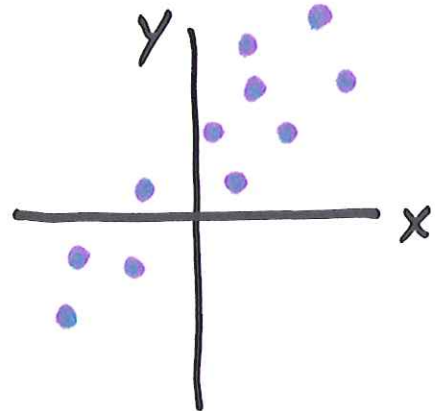
Correlations

Positive and negative correlations resemble lines with positive and negative slopes.

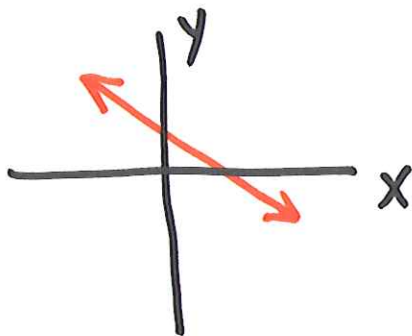
Positive Slope



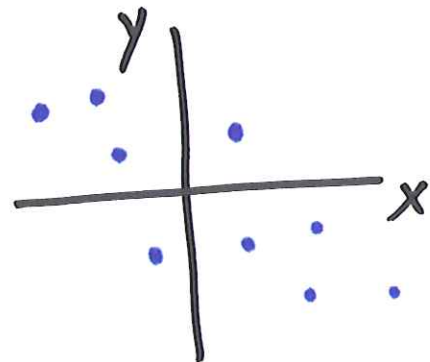
Positive Correlation



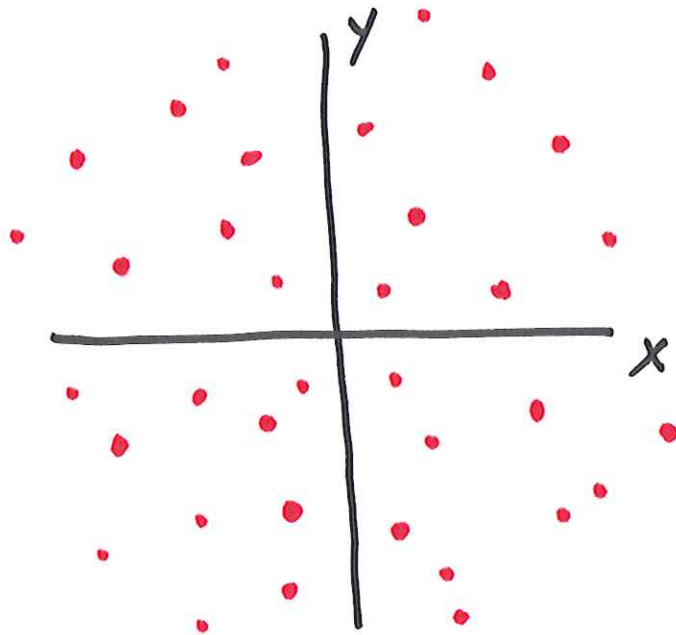
Negative Slope



Negative Correlation



No correlation means that the correlation is neither positive nor negative.



No correlation

Positive correlation

As one quantity increases,
the other quantity increases.

EX the number of hours worked
and my pay (assuming I
get paid by the hour)

EX the number of miles
driven and the amount
of gas used

Negative correlation

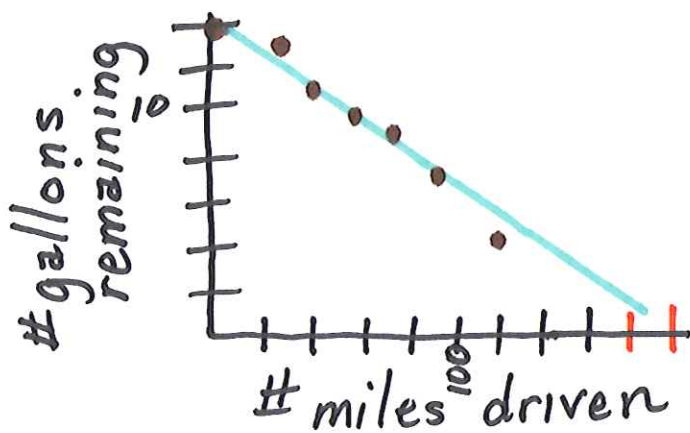
As one quantity increases,
the other quantity decreases.

EX the number of miles driven
and the amount of gas
remaining

EX the temperature outside and
coat sales

When given a scatter plot, a line of best fit can be drawn so that predictions can be made.

Predict the amount of gas remaining after driving 200 miles.



Step 1: Draw a line of best fit.
(an example is provided)

Step 2: Extend the axis to 200 miles.

Step 3: Answer the question.
Your thoughts?