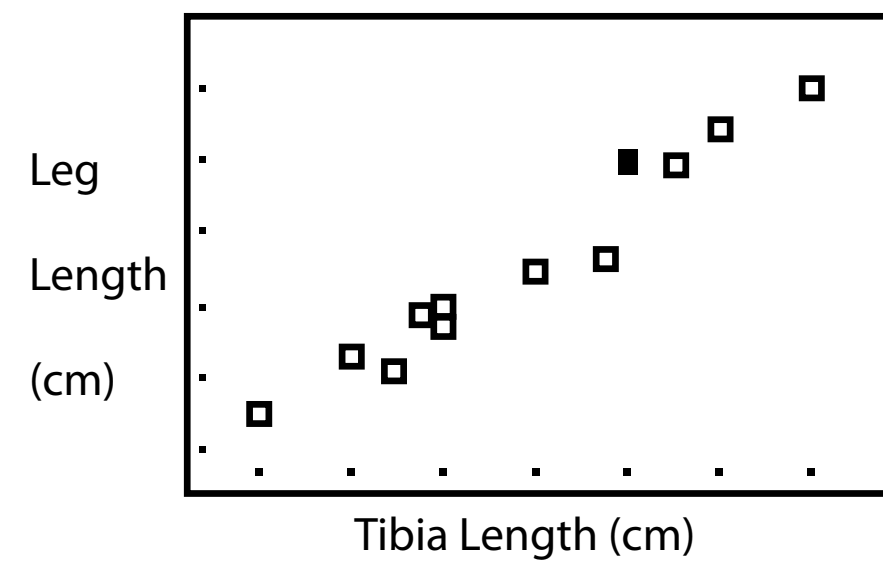


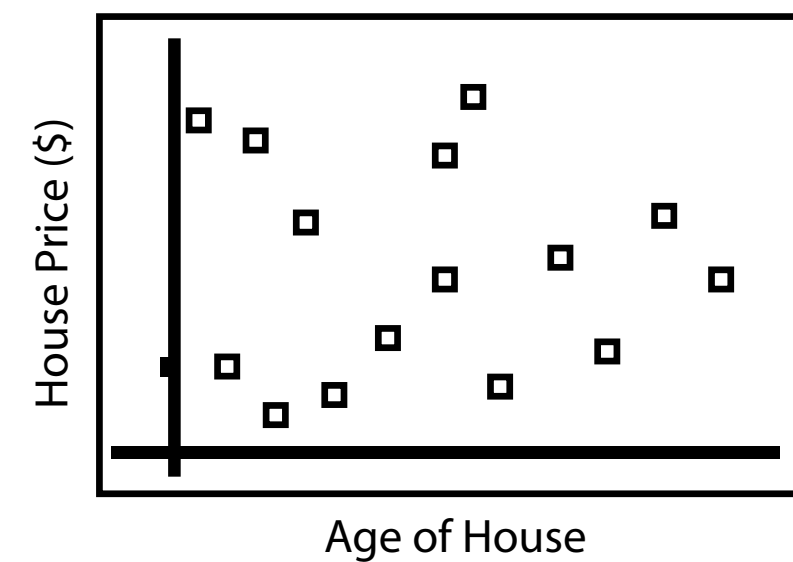
CONNECTIONS ACROSS THE CURRICULUM: Graphing

MATHEMATICS

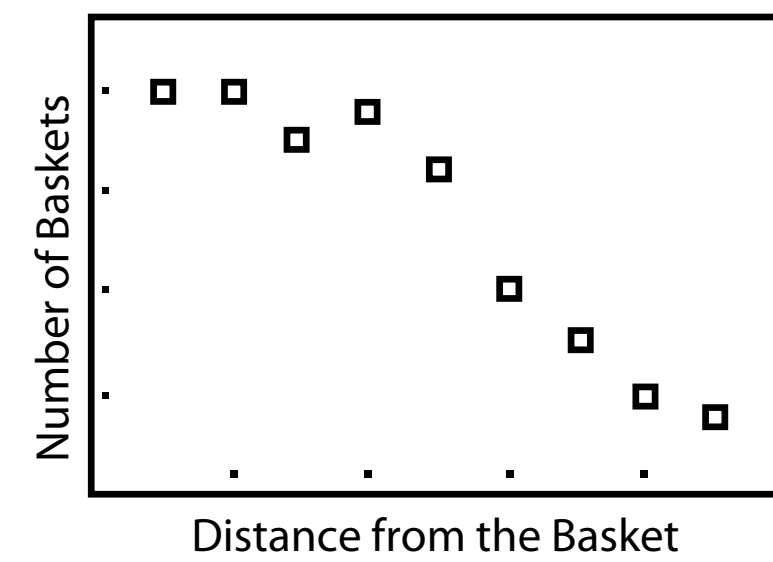
Positive Correlation



No Correlation



Negative Correlation



Interpolating occurs when the value you are finding is somewhere between the first point and the last point

Table of Values

Time (sec)	Height (m)
0	2
1	4
2	6
3	8
4	10

Extrapolating occurs when the value you are finding is before the first point or after the last point. This means you may need to extend the line.

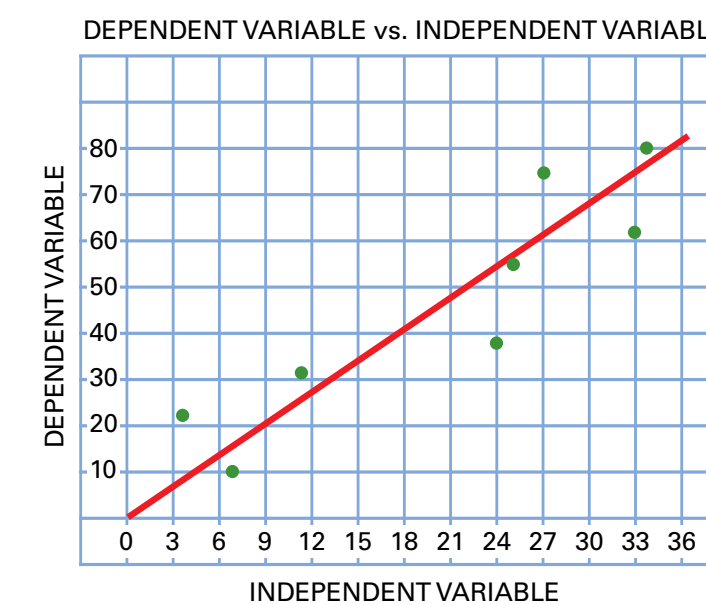
GEOGRAPHY



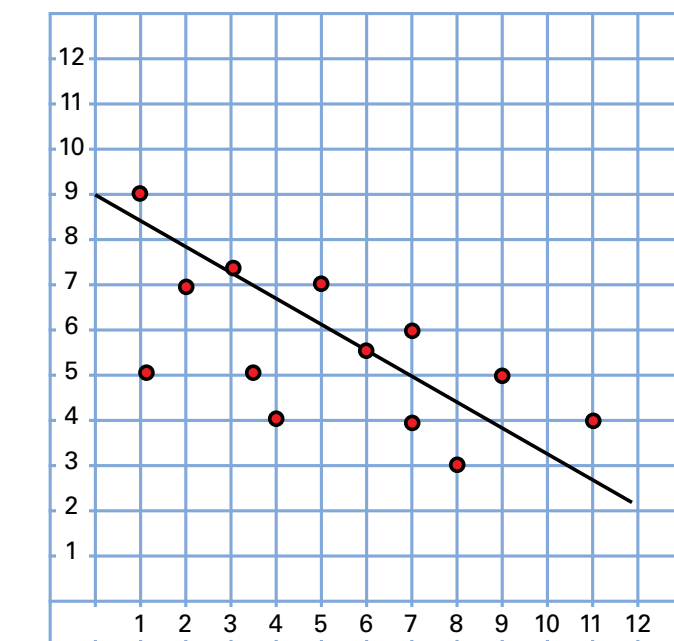
Describing trends in data.
Using line graphs to display data.

SCIENCE

Dependent Variable = Measured Variable
Independent Variable = Manipulated Variable



Predict the value of the independent variable when the dependent variable equals 0.



Describe the relationship between the dependent and independent variables. Does this support or refute your initial hypothesis?

Describing Relationships

- Different representations of relationships or patterns show different things about the relationship and which is more useful depends on the situation.
- Comparing mathematical relationships or patterns helps you see that groups of relationships can behave in very similar ways.
- Sometimes knowing a few things about a pattern or relationship allows you to predict other things about that pattern or relationship.*