

Problem of the Day: Solve for c.
 $yc - o(w + b) = 0$
 $+o(w+b) \cdot +o(w+b)$
 $yc = o(w+b)$
 $C = o(w+b)$ or y

Plan for the Day: Notes on types of data
 Finish test $C = ow + bo$ **Cowboy**
 Work on extra credit logic puzzle after test (due Fri.)
 Homework Week 4 is due tomorrow
 Objective: We will be able to identify types of data.
 Today is National Cheeseburger Day!!

There are two kinds of data.
 Continuous - data connects to make a smooth, solid line; data exists for fractions and decimals.
 Discrete - data does not connect and features jumps; data exists only for whole numbers

Example: Determine if the following cases would result in continuous or discrete data.

- the time it takes to run a mile **Continuous**
- the number of shirts sold at Wal-Mart **discrete**
- the number of people attending a concert **discrete**
- the amount of rain falling in a hurricane **Continuous**

As we look at graphs, we can determine if there is a relationship between the x- and y-values.

A relationship that exists between the x-values and y-values is called a correlation.

Example: The amount of studying compared to grades

There are 3 different kinds of correlations.

Positive - as the x-values increase, so do the y-values.
 Negative - as the x-values increase, there the y-values decrease.
 No correlation - there does not appear to be a relationship that exists.

Example: Determine if there is a positive, negative, or no correlation.