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Correlation

Correlation is (1. A measure of the extent to which two variables are related.) This is one way of doing social research. This takes the relation of two items and test and shows if one is related to the cause of another. There are three types of correlations. Positive correlation is the relationship (1. Between two variables in which both variables either increase or decrease at the same time.) An example of this would be the more time you spend on a running machine, the more calories you will burn. This would have to be tested. One way of doing this would be to run at one spend for a set amount of time recording the calories burned then increase the speed a few more times and record the calories again. Testing on a few different subject to get the best information with the research. Thus, allowing you to be able to come to a proper conclusion the theory.

A negative correlation (1. Is a relationship between two variables in which an increase in one variable is associated with a decrease in the other.) An example of negative correlation could be as a trains speed increases the length of time to get to the final point would decrease.

The difference between the positive and negative correlation is that the variables are working in different directions. One work with one and one in the opposite direction.

Correlation between two things is measured by correlation coefficient. This is a number from -1 to +1. The closer the number is to zero the weaker the relation between the two are. So a correlation of 0.8 would show a strong relationship between two variables.

Correlation is important in (2.research because it allows you to discover the said strength and direction that exist between two variables). This shows the cause and effect that can happen between two items. It indicates if one variable plays a roll in helping a second variable change.

Citations-

(1.)Mcleod, S. (2020). *Correlation | Simply Psychology*. [online] Simplypsychology.org. Available at: https://www.simplypsychology.org/correlation.html [Accessed 7 Jan. 2020].

(2.) openStax psychology book.