Test 1 Review

Formulas will be provided to you, but you will need to be able to interpret the formulas and identify the correct numbers to put in the formula.

Be able to identify dependent variables and independent variables in an experimental study

Be able to identify correlational and experimental research designs

Be familiar with nominal, ordinal, interval, and ratio scales of measurement and be able to identify examples of each

What are descriptive statistics and what types of questions do they address?

Be able to identify the best measure of central tendency to use for various scales of Measurement

Be able to compute the mean, median, and mode given a set of scores or frequency table

Be able to interpret each measure of central tendency

Be able to compute the range and standard deviation given a set of scores

Be able to compute the variance given a set of scores or the standard deviation

Be able to interpret each measure of variability

What do the mean and standard deviation tell you about a set of scores and how do they help you interpret any particular score in that dataset?

Be able to construct a frequency table and histogram given a set of scores

What is the relationship between the relative position of the mean and median and skew?

Be able to interpret a correlation coefficient in terms of direction and size

What are the major ways to assess reliability? What type of measures are necessary to assess different types of reliability (for example, you need multiple items tapping one construct to assess internal consistency reliability)

Why is it impossible to know the “true score” in a dataset

How are reliability and validity related to one another?