

Statistics Study Guide

Hello, students. This study guide will guide you as you work through the statistics online tutorial.

After completing the tutorial, you should be able to do the following:

- Name and define of each of the levels of measurement
- Define or explain the distinction between descriptive and inferential statistics
- Cite and define the three measures of central tendency
- Understand how the three measures of central tendency are derived, what factors might influence them, and be able to calculate them
- Explain the distinction between (define) 1) a sample distribution, 2) a sampling distribution, and 3) a population distribution, which are three distributions used in inferential statistics
- Construct a frequency distribution table
- Explain the difference between Type I and Type II errors
- List the levels of measurement of the X and Y variables appropriate to the assumptions of χ^2 (chi square) test of independence, Independent Samples t-Test, One-sample t-Test, and One-way ANOVA
- Identify the symbols used for these variables: Independent, Dependent, slope, Y-intercept, and the sum of scores in a distribution
- Identify the type of statistical measure or procedure used to determine the magnitude of an association
- Identify and explain the terms in the bivariate regression equation
- Know the range and interpretation of "r" (correlation) and what a correlation is used for