

Chapter 9 – Correlation and Regression Study Guide

OBJECTIVES:

The student will be able to:

1. Create and interpret scatterplots.
2. Explain the assumptions and conditions for the Pearson Correlation versus the Spearman rho.
3. Compute and interpret the Pearson Correlation.
4. Compute and interpret the Spearman Rho.
5. Compute a correlation matrix to indicate the associations among the pairs of three or more variables.
6. Compute and interpret Chronbach's alpha as a measure of reliability.
7. Compute and interpret a bivariate regression.
8. Compute and interpret a multiple regression (Enter method).
9. Write about the results of the statistical tests performed in this chapter.

TERMINOLOGY:

- scatterplot
- linear regression line
- Pearson product moment correlation (r)
- Spearman's rho (r_s)
- one-tailed test vs. two-tailed test
- correlation matrix
- Cronbach's alpha
- internal consistency reliability
- inter-item correlation matrix
- summated scale
- bivariate (simple linear) regression
- unstandardized coefficients
- multiple regression
- correlation coefficient (R)
- Adjusted R^2
- standardized beta coefficients

ASSIGNMENTS: See additional activities and extra SPSS problems for assignment examples.