

Chapter 8 – Cross-Tabulation, Chi-Square, and Non Parametric Measures of Association Study Guide

OBJECTIVES:

The student will be able to:

1. Create cross-tabulation tables from two variables which both have few levels.
2. State the assumptions and conditions for the use of Chi-square, Phi and Cramer's V .
3. Determine if there is a statistically significant relationship between two nominal variables using Chi-square.
4. Assess the strength of the relationship (effect size) between two nominal variables using phi (or Cramer's V).
5. Compute and interpret Kendall's tau-b for ordinal and categorical variables.
6. Compute and interpret eta for the relationship between one nominal and one normal/scale variable.
7. Compute Cohen's Kappa to assess interobserver reliability for two nominal variables.
8. Write about the results of the statistical tests performed in this chapter.

TERMINOLOGY:

- crosstabulation (crosstabs)
- count
- expected count
- Chi-square
- Pearson Chi-square test
- Fisher's exact test
- Phi and Cramer's V

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