Statistics Review Sheet

Review for Exam 5 (Chapters 15, 16)

Chapter 15

Key terms
- Correlation
- Sum of products
- Restricted range
- Coefficient of determination
- Point-biserial correlation
- Linear relationship
- Slope
- Least-squares solution
- Regression equation for Y
- Regression
- Regression line

Understand the Pearson correlation and what it measures and describes
Be able to compute the Pearson correlation using either the definitional or the computation formula
Know the difference between Spearman correlation and Pearson correlation
Be able to compute and understand the linear regression equation for predicting Y values from X values

Chapter 16

Key terms
- Parametric test
- Nonparametric test
- Goodness-of-fit test
- Observed frequencies
- Expected frequencies
- Chi-square statistic
- Distribution of chi-square
- Test for independence
- Phi-coefficient
- Cramer's V

Know when to use a chi-square test for goodness of fit and be able to conduct the test to evaluate a hypothesis.
Be able to conduct a chi-square test for independence
Be able to calculate the effect size for a chi-square test of independence, using either the phi-coefficient or Cramer's V