**Choosing the Correct Statistics**

First, identify the dependent variable and the independent variable(s). Then use the following questions about those variables to determine the most appropriate statistics for analyzing the data.

Dependent Variable: What type of variable?

Continuous Discrete

How many Independent Variables? How many variables?

One Two or more One Two

IV: What type of variable? IVs: What type of variable?

**Goodness-of-fit Test for Independence**

**Chi-square Chi-Square**

Continuous Discrete Continuous Discrete

How many means?

**Correlation Multiple Linear Regression Two-Way ANOVA**

**Simple Linear Regression** One Two Three or more

**One-sample z-test (sigma known) Dependent-samples t-test One-way ANOVA**

**One-sample t-test (sigma unknown) Independent-samples t-test**

**One-way ANOVA**