Figure 14.2  Statistical Test Decision Flow Chart

Comparing means or testing relationships?

Means  Relationships

How many sample means?

Ratio/interval or nominal/ordinal scale?

One

Ratio/interval  Nominal/ordinal

Descriptive or predictive?

ANOVA test

Chi-square test

Three or more

Predictive

Regression test

Two

Within subjects or Between subjects?

Descriptive

Within subjects

Between subjects

Paired samples t test

Independent samples t test

NOTE: Answer each question about the study design to arrive at a test (tests are listed in bold).