

## CHAPTER OVERVIEW

### 10: F Distribution and One-Way ANOVA

For hypothesis tests comparing averages between more than two groups, statisticians have developed a method called "Analysis of Variance" (abbreviated *ANOVA*). In this chapter, you will study the simplest form of *ANOVA* called single factor or one-way *ANOVA*. You will also study the *F* distribution, used for one-way *ANOVA*, and the test of two variances. This is just a very brief overview of one-way *ANOVA*. You will study this topic in much greater detail in future statistics courses. One-Way *ANOVA*, as it is presented here, relies heavily on a calculator or computer

#### Topic hierarchy

[10.1: Prelude to F Distribution and One-Way ANOVA](#)

[10.2: One-Way ANOVA](#)

[10.3: The F Distribution and the F-Ratio](#)

[10.4: Facts About the F Distribution](#)

[10.5: Test of Two Variances](#)

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