

## CHAPTER OVERVIEW

### 13: 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

- 13.1: Prelude to F Distribution and One-Way ANOVA
- 13.2: One-Way ANOVA
- 13.3: The F Distribution and the F-Ratio
- 13.4: Facts About the F Distribution
- 13.5: Test of Two Variances
- 13.6: Lab- One-Way ANOVA
- 13.E: F Distribution and One-Way ANOVA (Exercises)

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