

## CHAPTER OVERVIEW

### 9: Hypothesis Testing with One Sample

One job of a statistician is to make statistical inferences about populations based on samples taken from the population. Confidence intervals are one way to estimate a population parameter. Another way to make a statistical inference is to make a decision about a parameter. For instance, a car dealer advertises that its new small truck gets 35 miles per gallon, on average. A tutoring service claims that its method of tutoring helps 90% of its students get an A or a B. A company says that women managers in their company earn an average of \$60,000 per year.

[9.1: Prelude to Hypothesis Testing](#)

[9.2: Null and Alternative Hypotheses](#)

[Null and Alternative Hypotheses \(Exercises\)](#)

[9.3: Outcomes and the Type I and Type II Errors](#)

[Outcomes and the Type I and Type II Errors \(Exercises\)](#)

[9.4: Distribution Needed for Hypothesis Testing](#)

[Distribution Needed for Hypothesis Testing \(Exercises\)](#)

[9.5: Rare Events, the Sample, Decision and Conclusion](#)

[Rare Events, the Sample, Decision and Conclusion \(Exercises\)](#)

[9.6: Additional Information and Full Hypothesis Test Examples](#)

[9.7: Hypothesis Testing of a Single Mean and Single Proportion \(Worksheet\)](#)

[9.8: Hypothesis Testing with One Sample \(Exercises\)](#)

### Contributors

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