

CHAPTER OVERVIEW

9: Hypothesis Testing for a Single Variable and Population

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: Hypothesis Tests- An Introduction](#)

[9.2: Type I and Type II Errors](#)

[9.3: Hypothesis Tests about \$\mu\$ - p-value Approach](#)

[9.4: Hypothesis Tests about \$\mu\$ - Critical Region Approach](#)

[9.5: Hypothesis Tests for a Proportion](#)

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