

CHAPTER OVERVIEW

10: One Population Hypothesis Testing

In the prior section we used statistical inference to make an estimate of a population parameter and to measure the reliability of the estimate through a confidence interval. In this section, we will explore in detail the use of statistical inference in testing a claim about a population parameter; this inference is the heart of the scientific method used in research.

- [10.1: Procedures of Hypotheses Testing and the Scientific Method](#)
- [10.2: Formulate General Research Questions](#)
- [10.3: Design Research Hypotheses and Experiment](#)
- [10.4: Collect and Analyze Experimental Data](#)
- [10.5: Report Conclusions in Non-statistical Language](#)
- [10.6: Test of Mean vs. Hypothesized Value – A Complete Example](#)
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- [10.9: The p-value- Misconceptions and Proper Usage](#)

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