

## CHAPTER OVERVIEW

### 8: Testing Hypotheses

In the sampling that we have studied so far the goal has been to estimate a population parameter. But the sampling done by the government agency has a somewhat different objective, not so much to *estimate* the population mean  $\mu$  as to *test* an assertion—or a hypothesis—about it, namely, whether it is as large as 75 or not. The agency is not necessarily interested in the actual value of  $\mu$ , just whether it is as claimed. Their sampling is done to perform a test of hypotheses, the subject of this chapter.

[8.1: The Elements of Hypothesis Testing](#)

[8.2: Large Sample Tests for a Population Mean](#)

[8.3: The Observed Significance of a Test](#)

[8.4: Small Sample Tests for a Population Mean](#)

[8.5: Large Sample Tests for a Population Proportion](#)

[8.E: Testing Hypotheses \(Exercises\)](#)

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