

**Chapter 1: What is Statistics?**

- 1.1**
- a. Population: all universities in the United States; Sample: 100 in which the mean for each state was measured; In: all states that are left, so that the population size just is 1 instead of 2; Population: population of generalists; In: all 100 schools that were tested; Parameter: mean score.
  - b. Population: all female voters in the US; Sampling: measures the true mean body temperature.
  - c. Population: every family dwelling in the city; Sampling: to measure the true mean water temperature.
  - d. Population: all trees administered by the company for the specific area; Sampling: to measure the growth rate of trees administered.
  - e. Population: all white members of the general public; Sampling: to measure the percentage of white female population.
  - f. Population: mean test score for all people attending basic mathematics classes; Sampling: to measure the test scores for one class.
  - g. Population: all items manufactured for all countries of the world; Sampling: measures the true manufacturing process.



- 1.2**
- a. This histogram is skewed.
  - b. The data are roughly bell.
  - c. 10000, or roughly 10,000.
  - d. It is not possible to find an accurate weight.

# Mathematical Statistics With Applications Problem Solutions

**S Ashworth**



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