

CHAPTER OVERVIEW

1: Sampling and Descriptive Statistics

Included in this chapter are the basic ideas and words of probability and statistics. You will soon understand that statistics and probability work together. You will also learn how data are gathered and what "good" data can be distinguished from "bad."

1.1: Introduction

1.2: Definitions of Statistics, Probability, and Key Terms

1.3: Data, Sampling, and Variation in Data and Sampling

1.4: Frequency, Frequency Tables, and Levels of Measurement

1.4.1: Completing a Frequency, Relative, and Cumulative Relative Frequency Table (Activity)

1.5: Experimental Design and Ethics

1.6: Prelude to Descriptive Statistics

1.7: Stem-and-Leaf Graphs (Stemplots), Line Graphs, and Bar Graphs

1.8: Histograms, Frequency Polygons, and Time Series Graphs

1.9: Box Plots

1.9.1: The Box Plot Creation Game (Activity)

1.10: Measures of the Location of the Data

1.11: Measures of the Center of the Data

1.12: Measures of the Spread of the Data

1.12.1: Guess the Standard Deviation Game (Activity)

1.13: Skewness and the Mean, Median, and Mode

1.1 - Contributors and Attributions

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