

## SECTION OVERVIEW

### 1.2: Working with Data

#### Learning Objectives

Having read this chapter, you should be able to:

- Distinguish between different types of variables (quantitative/qualitative, binary/integer/real, discrete/continuous) and give examples of each of these kinds of variables
- Distinguish between the concepts of reliability and validity and apply each concept to a particular dataset

#### 1.2.1: What Are Data?

#### 1.2.2: Data Basics

#### 1.2.3: Scales of Measurement

#### 1.2.4: What Makes a Good Measurement?

#### 1.2.5: Overview of Data Collection Principles

#### 1.2.6: Observational Studies and Sampling Strategies

#### 1.2.7: Experiments

#### 1.2.8: How Not to Do Statistics

#### 1.2.9: Exercises

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