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The following notes are from *Mathematical Statistics with Applications, 7th ed.* by Wackerly, Mendenhall & Scheaffer.

1 What Is Statistics?

1.1 Introduction

1.1 Definition (statistics).

a theory of information with inference-making as its objective.

1.1 Remark (The objective of statistics).

The objective of statistics is to make an inference about a population based on information contained in a sample from that population and to provide an associated measure of goodness for the inference.

1.2 Definition (population).

the large body of data that is the target of our interest.

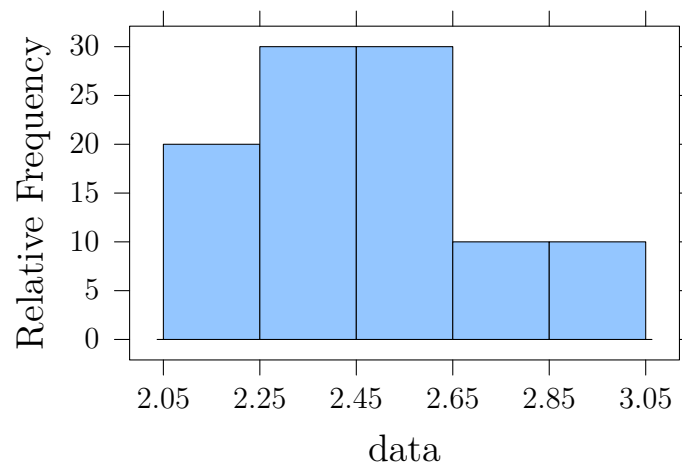
1.3 Definition (sample).

a subset selected from a population.

1.2 Characterizing a Set of Measurements: Graphical Methods

1.1 Example (relative frequency histogram).

given data set [2.1, 2.4, 2.2, 2.3, 2.7, 2.5, 2.4, 2.6, 2.6, 2.9] we could construct the *relative frequency histogram*:



1.2 Example.

example text is written here.

Appendix

A List of Definitions

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Definition 1.2 population 1

Definition 1.3 sample 1

B List of Notation

C List of Lemmas, Theorems and Corollaries

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