

## 1.1/2: Categorical Variables and Displaying Distributions with Graphs

### Individuals and Variables

- **Individuals** are objects described by a set of data. Individuals may be people, but they may also be animals or things.
- A **variable** is any characteristic of an individual. A variable can take different values for different individuals.

### Categorical and Quantitative Variables

- A **categorical variable** places an individual into one of several groups or categories.
- A **quantitative variable** takes numerical values for which arithmetic operations such as adding and averaging make sense.

### Distribution

The **distribution** of a variable tells us what values the variable takes and how often it takes these variables.

### Describing the Overall Pattern of a Distribution – Remember your SOCS

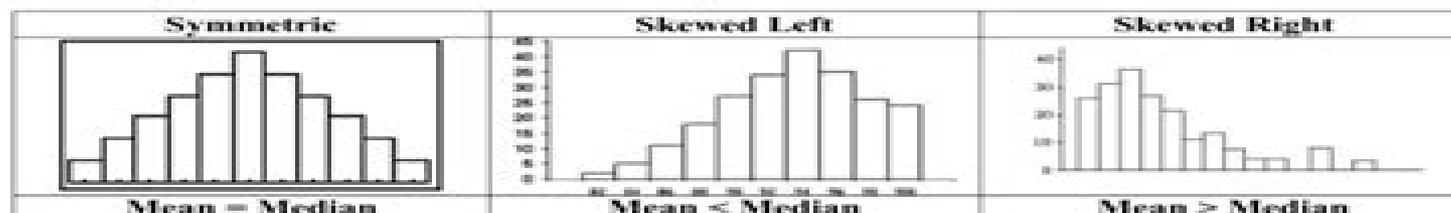
To describe the overall pattern of a distribution, address all of the following:

- **Spread** – give the lowest and highest value in the data set
- **Outliers** – are there any values that stand out as unusual?
- **Center** – what is the approximate average value of the data (only an estimation)
- **Shape** – does the graph show symmetry, or is it skewed in one direction (see below)

### Outliers

An outlier in any graph of data is an individual observation that falls outside the overall pattern of the graph.

### Describing the SHAPE of a distribution – Symmetric and Skewed Distributions



### Time Plot

- A **time plot** of a variable plots each observation against the time at which it was measured.
- Always mark the time scale on the horizontal axis and the variable of interest on the vertical axis. If there are not too many points, connecting the points by lines helps show the pattern of changes over time.

# Ap Statistics Chapter 1 Exploring Data

**Neil J. Salkind**



**Ap Statistics Chapter 1 Exploring Data:**

## Reviewing **Ap Statistics Chapter 1 Exploring Data**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Ap Statistics Chapter 1 Exploring Data**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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