

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

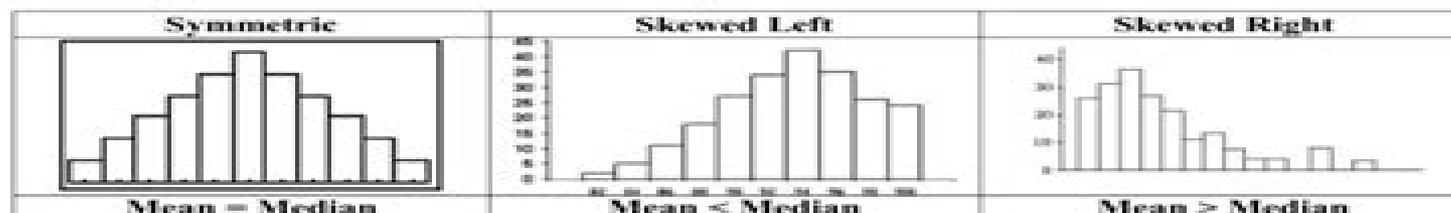
To describe the overall pattern of a distribution, address all of the following:

- **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:

Ap Statistics Chapter 1 Exploring Data: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. Ap Statistics Chapter 1 Exploring Data : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Ap Statistics Chapter 1 Exploring Data : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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