



STATISTICS for Social & Behavioral Sciences

IMPORTANT TERMS

- Nominal/categorical/qualitative data** fall into groups or categories (such as state of residence, first type of pet owned, or gender identification).
- Ordinal data** are a set or ordered sequence of categories (such as rankings, order of winners in a competition, class rank).
- Quantitative data** represent counts or measurements (such as number of people in line, or life expectancy).
- Interval data** are a type of quantitative data that consist of ordered categories that are all intervals of the same size; 0 here is arbitrary and has no meaning such as age of a toddler.
- Ratio data** take the interval scale and add 0 to it, where 0 has the meaning "none." Examples include height and weight.
- Population:** The entire group you are interested in studying.
EX: All US high school students with an IQ above 100.
- Sample:** A subset of the population from which you are collecting data.
EX: 1,000 high school students with an IQ above 100.
- Random sample:** A subset of size n of the population where all other samples of size n have an equal chance of being selected.
EX: 1,000 randomly chosen high school students with an IQ above 100.
- Parameter:** A number that summarizes a population, typically unknown.
EX: The average IQ for all high school students in the United States.
- Statistic:** A number that summarizes a sample.
EX: The average IQ from 1,000 high school students randomly selected from the United States.

DATA TABLES

- Frequencies:** The number in each group.

Frequencies		
First pet you ever owned	Frequency	Relative Frequency
Dog	65	0.33
Cat	100	0.50
Other	50	0.25
None	4	0.02
Total	200	1.00

- Relative frequencies:** The percentage in each group.

Relative Frequencies		
# Cars in a family	Frequency	Relative Frequency
0	3	0.075
1	15	0.375
2	17	0.425
3	5	0.125
Total	40	1.00

DESCRIPTIVE STATISTICS FOR SINGLE VARIABLE

Summarize quantitative data to indicate center, variation, and relative standing.

MEASURES OF CENTER

Measures of center indicate where the "middle" of the data is, in different ways.

- Mean:** The average of the data set. Sample mean is $\bar{x} = \frac{1}{n} \sum x_i$, where:

- x_1 = the first data value
- x_2 = the second data value
- x_n = the last data value (n = number of values)

EX: Given 2, 4, and 5, the average = $\frac{2+4+5}{3} = 3.67$

- Median:** Divides the data set in half.
- If the data have an odd sample size, the median is the middle value.

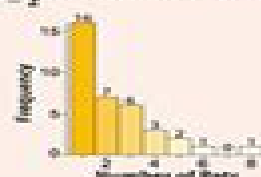
EX: Given 1, 2, 3, 4, and 5, the median is 3.

- If the data have an even sample size, the median is the average of the two middle values.

EX: Given 1, 2, 3, and 4, the median is $\frac{2+3}{2} = 2.5$.

- Properties:**
- Mean is affected by outliers; median is not.
- If mean > median, data are skewed right.

EX: In the graph below, mean = 2.33, and median = 2.



- If mean < median, data are skewed left.

EX: In the graph below, mean = 6.25, and median = 7.



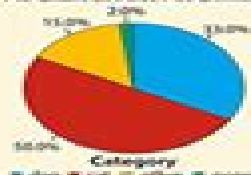
GRAPHS FOR SINGLE VARIABLE

The purpose of a graph is to show a visual of the data.

PIE CHART

A graph of categorical data showing frequency or relative frequency in a circle with a slice for each group. See below for example of first pet owned (33% dog, 50% cat, 15% other, and 2% none).

Pie Chart of First Pet Owned

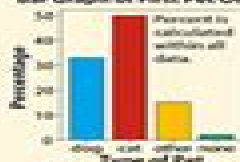


Category

dog cat other none

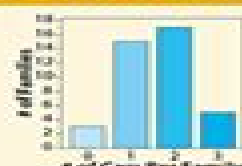
A graph of categorical data showing frequency or relative frequency in a bar for each group. A bar graph on first pet owned is shown below.

Bar Graph of First Pet Owned



HISTOGRAM

A graph of quantitative data with the variable on the x axis divided into groups (bars) and the frequency or relative frequency in each group given on the y axis. A histogram on number of cars per family is shown above right.



STEM-AND-LEAF PLOT

A numerical graph of quantitative data with the last digit on the right of the line and the leading digits to the left of the line. You can recover the data set from the stem-and-leaf plot.

Variables	Test Score
Stem	Leaf
7	001300
8	00467779
9	012377799
10	00

The lowest test scores (row 1) are 70, 70, 71, 71, 76, and 79.

BOXPLOT

A one-dimensional graph of quantitative data that shows the locations of the five-number summary.

- 25% of the data lie in each section.
- A box contains the middle 50% of the data.
- The line in the box indicates the median.
- The lines coming out of the box, end at the minimum and maximum.

A test scores boxplot is shown below.



Statistics The Behavioral Social Sciences

Emilie Sanchez



Statistics The Behavioral Social Sciences:

Reviewing **Statistics The Behavioral Social Sciences**: 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 "**Statistics The Behavioral Social Sciences**," 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.

<http://www.frostbox.com/data/virtual-library/fetch.php/The%20Catastrophist%20A%20Novel%20English%20Edition.pdf>

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