



# ELEMENTARY STATISTICS

????????SUBHEADER????????????????

## IMPORTANT TERMS

- Categorical/quantitative data falls into groups or categories.**  
**EX:** State, type of pet, and gender
- Quantitative data represents counts or measurements.**  
**EX:** Profit, number of people in line, and lifetime of a product
- Population:** The entire group studied.  
**EX:** All U.S. registered voters
- Sample:** A subset of a population from which data is collected.  
**EX:** 1,000 randomly sampled, registered U.S. voters
- Parameter:** A number that summarizes a population and is typically unknown.  
**EX:** The average price of gas in the U.S.
- Statistic:** A number that summarizes a sample.  
**EX:** The average price of gas from 1,000 gas stations randomly selected from the U.S.

## DATA TABLES

- Frequency:** The number in each group.
- Relative frequency:** The percentage in each group.

**Data Table: Type of Pet**

Type of pet	Frequency	Relative frequency
Dog	10	.33
Cat	15	.50
Other	5	.17
Total	30	1.00

**Data Table: Age Group**

Age group	Frequency	Relative frequency
Under 18	800	.24
18-30	200	.47
Over 30	125	.29
Total	425	1.00

## GRAPHS FOR SINGLE VARIABLE

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

### PIE CHART

**Pie chart:** A graph of categorical data showing frequency or relative frequency in a circle with a slice for each group.



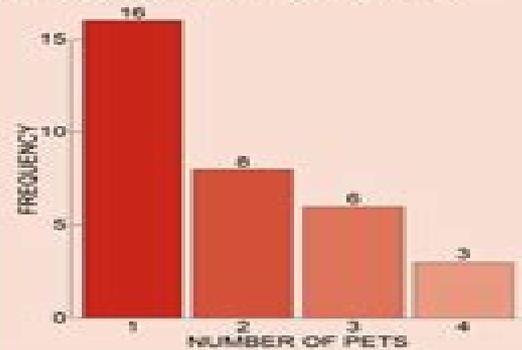
## BAR GRAPH

**Bar graph:** A graph of categorical data showing frequency or relative frequency in a bar for each group.



## HISTOGRAM

**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 on the Y axis.



## STEM-LEAF PLOT

**Stem-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 a stem-leaf plot.

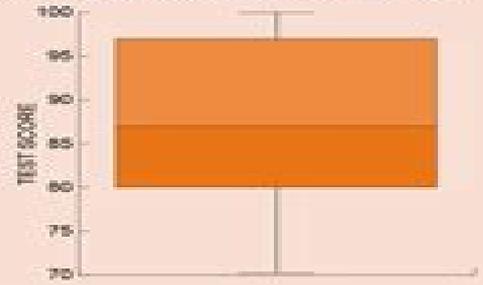
**EX:** Test scores, with 70, 70, 71, 71, 76, and 79 as the lowest 6 scores.

Test Scores	
Stem	Leaf
7	001169
8	00447779
9	002377799
00	00

## BOXPLOT

**Boxplot:** A one-dimensional graph of quantitative data that shows the locations of the 5-number summary.

- 25% of the data lies 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.
- In this boxplot, the minimum = 70, Q1 = 80, Q2 = the median = 87.5, Q3 = 97, and the maximum = 100.



## DESCRIPTIVE STATISTICS FOR SINGLE VARIABLE

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

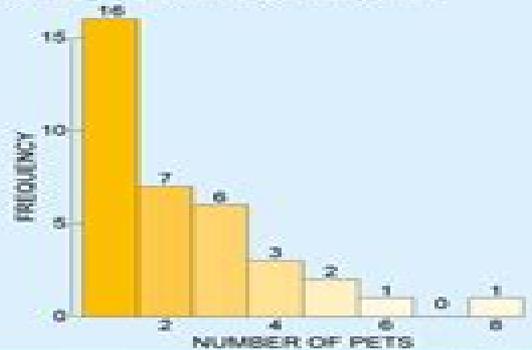
### MEASURES OF CENTER

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

- Mean:** The average of the data set. Sample mean is  $\bar{x} = \frac{1}{n} \sum_{i=1}^n x_i$ , where:
  - $x_1$  = first data value
  - $x_2$  = second data value
  - $x_n$  = last data value ( $n$  = number of values)
  - EX:** Given 2, 4, and 5, the average is  $\frac{2+4+5}{3} = 3.67$ .
- Median:** Divides the data set in half.
  - If the data has 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 has an even sample size, the median is the average of the two middle values.
  - EX:** Given 1, 2, 3, and 4, the median is  $\frac{2+3}{2} = 2.5$ .
- Mode:** The data value that occurs most often. This is not a good measure of center.

### PROPERTIES

- Mean is affected by outliers; median is not.
- If mean > median, data are skewed right.
- EX:** In this graph, mean = 1.32 and median = 1.



# Elementary Statistics Student Study Guide

**Annelies Wilder-Smith**



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