

Essential Tools for Understanding Statistics & Probability • Rules, Concepts, Variables, Equations, Problems, & Helpful Hints • Common Pitfalls

## DESCRIPTIVE STATISTICS

Methods used to simply describe data set that has been observed

### KEY TERMS & DEFINES

- Quantitative data:** data variables that represent some numerical quantity (e.g. height, time, weight)
- Categorical/Qualitative data:** data variables with values that reflect some quality of the element, one of several categories, and a human measurement
- Population:** "the whole", the entire group of which we seek to learn or that we intend to measure
- Sample:** "the part", a representative subset of the population
- Simple random sampling:** the most commonly assumed method for selecting a sample, samples are chosen so that every possible sample of the same size is equally likely to be the one that is selected
- $N$ :** size of a population
- $n$ :** size of a sample
- $x$ :** the value of an observation
- $f$ :** the frequency of an observation (e.g., the number of times it occurs)
- Frequency table:** a table that lists the values observed in a data set along with the frequency with which it occurs
- Population parameter:** some numeric measurement that describes a population, generally not known, but estimated from sample statistics
  - $\mu$ : population mean;  $\sigma$ : population standard deviation;  $\rho$ : population proportion;  $\rho$ : population standard of  $\rho$
- Sample statistic:** some numeric measurement used to describe data in a sample, used to estimate or make inferences about population parameters
  - $\bar{x}$ : sample mean;  $s$ : sample standard deviation;  $\hat{p}$ : sample proportion;  $\hat{\rho}$

### Application & Solution

1. A student receives the following exam grades on a course: 87, 88, 75, 82, 78

a. Compute the mean:  $\bar{x} = \frac{87 + 88 + 75 + 82 + 78}{5} = \frac{410}{5} = 82$

b. What is the median exam grade?  
In order, the scores are: 75, 78, 82, 88, 88; middle element = 82

c. What is the range? Range = maximum - minimum = 88 - 75 = 13

d. Compute the standard deviation:  
 $s = \sqrt{\frac{(87-82)^2 + (88-82)^2 + (75-82)^2 + (82-82)^2 + (78-82)^2}{5-1}} = \sqrt{\frac{25 + 36 + 49 + 0 + 16}{4}} = \sqrt{\frac{126}{4}} = \sqrt{31.5} \approx 5.61$

e. What is the z score for the exam grade of 88?  $z = \frac{88 - 82}{5.61} = \frac{6}{5.61} \approx 1.07$

f. The medians of a treatment group only are compared as follows many times they are being treated; the results are given in the following frequency table:

z	# of averages	0	1	2	3	4	5	6	7	8	9	Sum
0	1	1	2	3	4	5	6	7	8	9	10	55
1	1	2	3	4	5	6	7	8	9	10	11	66
2	1	2	3	4	5	6	7	8	9	10	11	77

a. Compute the mean:  $\bar{x} = \frac{1(1) + 2(2) + 3(3) + 4(4) + 5(5) + 6(6) + 7(7) + 8(8) + 9(9) + 10(10)}{1+1+1+1+1+1+1+1+1+1} = \frac{110}{10} = 11$

b. Compute the median: Since  $n = 10$ , an even number, the median is the average of the observations with ranks  $\frac{n}{2}$  and  $\frac{n}{2} + 1$  (i.e., the 5<sup>th</sup> and 6<sup>th</sup> observations)

While we could count from either side of the distribution from 0 or from 10, it is easier here to count from the bottom. The first 10 observations in rank order are all 0; the next 10 (the 5<sup>th</sup> through the 10<sup>th</sup>) are all 1; the 5<sup>th</sup> through the 10<sup>th</sup> are all 2; then the 5<sup>th</sup> is a 1 and the 6<sup>th</sup> is a 2; the median is the average  $(1 + 2) / 2 = 1.5$

c. Compute the IQR: To find the IQR, we must first compute Q1 and Q3. If we divide  $n = 10$ , we have a lower 5's and an upper 5's observations; the "median" of each would have rank 5.5 = 5.5; the 5<sup>th</sup> observation in the lower half is a 1, so Q1 = 1 and the 5<sup>th</sup> observation in the upper half is a 2, so Q3 = 2; therefore,  $IQR = Q3 - Q1 = 2 - 1 = 1$

### Formulating Hypotheses

Type	Feature	Formula	Important Properties
Measures of center (measures of central tendency) indicate which value is typical for the data set	mean	From raw data: $\bar{x} = \frac{\sum x_i}{n}$ From a frequency table: $\bar{x} = \frac{\sum f_i x_i}{n}$	ensitive to extreme values; appropriate and influencing the mean; more useful for symmetric data
	median	middle; median has rank $\frac{n+1}{2}$ Average of values with ranks $\frac{n}{2}$ and $\frac{n}{2} + 1$	not sensitive to extreme values; more useful when data are skewed
	mode	the observation with the highest frequency	only measure of center appropriate for categorical data
	mid-range	$\frac{\text{maximum} + \text{minimum}}{2}$	not often used; highly sensitive to unusual values; easy to compute
Measures of variation (measures of dispersion) reflect the variability of the data (i.e., how different the values are from each other)	sample variance	$s^2 = \frac{\sum (x_i - \bar{x})^2}{n-1}$	not often used; only use the square of these for the data
	sample standard deviation	$s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$	square root of variance; sensitive to extreme values; commonly used
	interquartile range (IQR)	$IQR = Q3 - Q1$ (see quartile, below)	less sensitive to extreme values
	range	maximum - minimum	not often used; highly sensitive to unusual values; easy to compute
Measures of relative standing of relative position indicate the z position value (compared to the others in the same data set)	percentile	data divided into 100 equal parts by rank (i.e., the $k^{\text{th}}$ percentile is that value greater than $k\%$ of the others)	important to apply to normal distributions; less probability distributions
	quartile	data divided into 4 equal parts by rank; Q2 (first quartile) is the value greater than 25% of the others; Q3 (third quartile) is greater than 75%; Q2 is identical to the median	used to compute IQR (see IQR, above); Q2 is often used as the "median" of the upper half, and Q1 as the "median" of the lower half; Q2 is the median of the data set
	z score	$z = \frac{x - \bar{x}}{s}$ to find the value of some observation, $x$ , when the z score is known: $x = \bar{x} + z s$	measures the distance from the mean in terms of standard deviation

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