



STATISTICS

THE BASIC PRINCIPLES OF STATISTICS FOR INTRODUCTORY COURSES

BASIC DEFINITIONS

STATISTICS: The study of methods for collecting, organizing, and analyzing data.

Descriptive Statistics: Procedures used to organize and present data in a convenient and communicable form.

Inferential Statistics: Procedures employed to arrive at broader conclusions or inferences about populations on the basis of samples.

POPULATION: The complete set of actual or potential elements about which inferences are made.

SAMPLE: A subset of the population selected using some sampling method.

Sampling methods

Cluster sample: A population is divided into groups called clusters; some clusters are randomly selected, and every member in them is observed.

Stratified sample: The population is divided into strata, and a fixed number of elements of each stratum are selected for the sample.

Simple random sample: A sample selected so that each possible sample of the same size has an equal probability of being selected; used for most inferential inference.

VARIABLE: An attribute of elements of a population or sample that can be measured; ex: height, weight, IQ, hair color and pulse rate are some of the many variables that can be measured for people.

DATA: Values of variables that have been observed.

Types of data

Qualitative (or "categorical") data: are descriptive but not numeric; ex: your gender, your birthplace, the color of an automobile.

Quantitative data: take numeric values.

Discrete data: take counting numbers (0, 1, 2, ...) as values, usually representing things that can be counted; ex: the number of teeth on a dog, the number of times a professor is late in a semester.

Continuous data: can take a range of numeric values, not just counting numbers; ex: the height of a child, the weight of a bag of beans, the amount of time a professor is late.

Levels of measurement

Qualitative data: can be measured at the:

Nominal level: Values are just names, without any order; ex: color of a car, major in college.

Ordinal level: Values have some natural order; ex: high school class (freshman / sophomore / junior / senior), military rank.

Quantitative data: can be measured at the:

Interval level: Numeric data with no natural zero point; intervals (differences) are meaningful, but ratios are not; ex: temperature in Fahrenheit degrees: 80°F is 20°F hotter than 60°F, but it is not 1.50°F as hot.

Ratio level: Numeric data for which there is a true zero; both intervals and ratios are meaningful; ex: weight, length, duration, most physical properties.

STATISTIC: A numeric measure computed from sample data, used to describe the sample and to estimate the corresponding population parameter.

PARAMETERS: A numeric measure that describes a population; parameters are usually not computed, but are inferred from sample statistics.

FREQUENCY DISTRIBUTION

Provides the frequency (number of times observed) of each value of a variable.

Table #1: Students in a driving class are polled regarding number of accidents they've had:

# of accidents	frequency	relative frequency
0	5	0.0526
1	2	0.0351
2	9	0.1579
3	15	0.2632
4	16	0.2897
5	12	0.2105

GROUPED FREQUENCY DISTRIBUTION

Values of the variable are grouped into classes.

Table #2: The scores on a mid-term exam are grouped into classes:

class	f	cumulative freq.
90-99	4	80
80-89	18	76
70-79	31	55
60-69	19	27
50-59	7	20
40-49	1	1

RELATIVE FREQUENCY DISTRIBUTION: Each frequency is divided by the total number of observations to produce the proportion or percentage of the data set having that value; ex: third column of Table 1.

CUMULATIVE FREQUENCY DISTRIBUTION: Frequencies count all observations at a particular value or class and all those less; Ex: third column of Table 2.

MEASURES OF CENTRAL TENDENCY

MEAN: Most commonly used measure of central tendency, usually meant by "average"; sensitive to extreme values.

POPULATION MEAN

$$\mu = \frac{1}{N} \sum_{i=1}^N x_i$$

Trimmed mean: Computed discarding some number of the highest and lowest values; less sensitive than ordinary mean.

Weighted mean: Computed with a weight multiplied to each value, making some values influence the mean more heavily than others.

MEDIAN: Value that divides the set so the same number of observations lie on each side of it; less sensitive to extreme values; for an odd number of values, it is the middle value; for an even number, it is the average of the middle two; ex: in Table 1, the median is the average of the 28th and 29th observations, or 1.5.

MODE: Observation that occurs with the greatest frequency; ex: in Table 1, the mode is 3.

MEASURES OF DISPERSION

SUM OF SQUARES (SS): The sum of squared deviations from the mean.

Population SS: $\sum (x_i - \mu)^2$ or $\sum x_i^2 - \frac{(\sum x_i)^2}{N}$

Sample SS: $\sum (x_i - \bar{x})^2$ or $\sum x_i^2 - \frac{(\sum x_i)^2}{n}$

VARIANCE: The average of square differences between observations and their mean.

Population variance: $\sigma^2 = \frac{1}{N} \sum (x_i - \mu)^2$

Sample variance: $s^2 = \frac{1}{n-1} \sum (x_i - \bar{x})^2$

Variance for grouped data:

Population: $\sigma^2 = \frac{1}{N} \sum f_i (m_i - \mu)^2$

Sample: $s^2 = \frac{1}{n-1} \sum f_i (m_i - \bar{x})^2$

STANDARD DEVIATION: The square root of the variance; unlike variance, it has the same units as the original data and is more commonly used.

ex: Pop. S.D.: $\sigma = \sqrt{\frac{1}{N} \sum (x_i - \mu)^2}$

STANDARD SCORES: Also known as Z-scores; the standard score of a value is the directed number of standard deviations from the mean at which the value is found; that is, $z = \frac{x - \mu}{\sigma}$

A positive z-score indicates a value greater than the mean; a negative z-score indicates a value less than the mean; a z-score of zero indicates the mean value.

Converting every value in a data set or distribution to a z-score is called standardization; once a data set or distribution has been standardized, it has a new mean $\mu = 0$, and a new standard deviation $\sigma = 1$.

GRAPHING TECHNIQUES

Histogram: A graph that uses bars to indicate the frequency of occurrence of observations.

Histogram: A bar graph used with quantitative, continuous variables.

FREQUENCY CURVE: A graph representing a frequency distribution in the form of a continuous line that traces a histogram.

Cumulative frequency curve: A continuous line that traces a histogram where bars in all the lower classes are stacked up in the adjacent higher class; cannot have a negative slope.

Symmetric curve: The frequency curve is unchanged if rotated around its center; median = mean.

Normal curve: Bell-shaped curve; symmetric.

Skewed curve: Deviates from symmetry; frequency curve is shifted with a longer "tail" to the left (mean < median) or to the right (mean > median).



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