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
- · Nampling 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 elementary inference
- VARIABLE: An attribute of elements of a population or sample that can be measured. Exheight, 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
- -Ouantitative 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 fleas 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:
- Naminal level: Values are just names, without any order; Ex: color of a car, major in college
- Ordinal level: Values have some natural order, exhigh school class (freshman/sophomore/ jamon/ senior), military mask
- -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 Fahrenbeit degrees; 80°F is 20°F hotter than 60°F, but it is not 150% as hot
 - Ratio level: Numeric data for which there is a true zero; both intervals and ratios are meaningful. Exweight, length, duration, most physical properties.

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

PARAMETER: 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)		
*	/	A.F
	3	0.0526
34	2	泰 ·泰尔多斯
3	9	0.1579
2	0.5	0.2632
1	16	0.2807
0	12	0.2105

GROUPED FREQUENCY DISTRIBUTION Values of the variable are proposed into classes

Table 2: The scores on a midterm exam are grouped into classes:

ediane.	100	committee frequency
20-22	4	80
80-89	188	76
70-79	34	5.8
60-69	19	27
50-59	7	8
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; Exthird column of Table I

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. SAMPLE MEAN

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

$$N = \frac{1}{N} \sum_{i=1}^{N} N_i$$

- Trimmed mean: Computed discarding some number of the highest and lowest values; less sensitive than ordinary mean
- -Weighted mean: $\sum_{i=1}^{N} w_i x_i$ Computed with a weight $\sum_{i=1}^{N} w_i$

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 29th observation, or 2

MODE: Observation that occurs with the greatest frequency; Ex. In Table 1, the mode is 1

MEASURES OF DISPERSION

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

• Population SS:
$$\sum (x_i - \mu_x)^2 \text{er} \sum x_i^2 - \frac{(\sum x_i)^2}{N}$$

• Sample SS:
$$\sum (x_i - x_i)^2 \operatorname{or} \sum x_i^2 - \frac{(\sum x_i)^2}{N}$$

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

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

• Sample variance:
$$s_2 = \frac{1}{\alpha - 1} \sum_{i=1}^{n} (x_i - \bar{x})^{i}$$

· Variances for grouped data:

-Population:
$$\sigma_i = \frac{1}{N} \sum_{i=1}^{N} f_i(m_i - \mu)^2$$

-Sample:
$$s_2 = \frac{1}{n-1} \sum_{i=1}^{N} f_i \left(m_i - \overline{x} \right)^2$$

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

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

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, $z = \frac{x - \mu}{2}$.

- A positive 2-score indicates a value greater than the mean; a negative 2-score indicates a value less than the mean; a 2-score of zero indicates the mean value
- Converting every value in a data set or distribution to a 5-score is called standardization; once a data set or distribution has been standardized, it has a new mean a = 0 and a new standard deviation a = 1

GRAPHING TECHNIQUES

BAR GRAPH: A graph that uses bars to indicate the frequency of occurrence of observations

 Histogram: A bor 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 burs in all the lower classes are stacked up in the adjacent higher class; cannot have a negative slove.
- Symmetric curve: The frequency curve is unchanged if rotated around its center; median – mean
- · Normal curve: Bell-shaped curve; symmetric
- Sharmed curve: Deviates from symmetry, frequency curve is shifted with a longer "tail" to the left (mean < median) or to the right (mean > median)



Statics Study Guide

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