Mod 2 preparation guide

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Foundational definitions

1. A statistical inference is the process of forming conclusions about a parameter of a population statistics computed from individuals in a sample.
2. IVPPSS= I is the individual being examined, V is the variable which is the characteristic being recorded about each individual, P is population which is all of the individuals of interest, P is parameter which is a summery computed from all individuals in a population, S is sample which is the subset of the population and S is statistics which is summaries computed from individuals in a sample.
3. The difference between population and sample is the population is all individuals in interest while the sample is a sub set of the population
4. The difference between a parameter and a statistic is the parameter is summary computed from individuals in a population while a statistic is a summary computed from the individuals in a sample.
5. The word used in both parameter and population descriptions is all.
6. The major goal of statistics that helps explains how a parameter is related to a population and how a statistic is related to a sample is the second major goal which allows inferences to be made about all individuals from a few individuals.
7. The reality would be sampling variability
8. The two major categories of variable types are quantitative and categorical variables. Quantitate variables have numerical values and categorical variables have values that groups individuals.
9. The two types of quantitative variables are continues and discrete. Continuous have an uncountable number of values and discrete have a countable number of variables.
10. The two types of categorical variables are nominal and ordinal. Nominal variables have no order or ranking while ordinal have a natural order or ranking.
11. Length of a pencil (mm)=quantitative continuous
12. Type of pencil(wooden,sythethetic,mechanical)=categorical nominal
13. Pencil lead type(soft,medium,hard)=categorical ordinal
14. Number of pencils a student owns=quantitative discrete