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Measures of Central Tendency – MEAN, MEDIAN, MODE  
MEAN – It is the average of a given set of observation.  
Ungrouped data  
Grouped data  
Direct Method: Shortcut Method: Combined Mean: MEDIAN – It is the middle value of an observation  
Ungrouped data: Grouped data: MODE – It is the value which occur the maximum number of times in a data  
Ungrouped data: Mode is the value which has the highest frequency.  
Grouped data: Relationship between Mean, Median and Mode  
Measures of Dispersion  
Range: It is the difference between the value of smallest observation and largest observation in a data.  
Quartile Deviation: Average Deviation: Ungrouped Data: Grouped Data: Standard Deviation: Ungrouped Data: Assumed Mean Method: Grouped Data: S.D. of Natural Numbers: Variance: Relationship between Measures of Variation: Correlation  
Karl Pearson's Co-efficient Method: In case of Grouped data: Spearman's Rank Coefficient: Regression Analysis  
Regression Equation of Y on X: Regression Equation of X on Y: If deviations are taken from mean: If deviations are taken from assumed mean: Regression Coefficients: Relation between coefficient of correlation and two regression coefficients: Index numbers  
Sampling  
Sample size determination: Mean: Proportion: Test of Hypothesis  
Null Hypothesis –  $H_0$ : Alternate Hypothesis –  $H_1$ : Size of Sample –  $n$ : Types of Tests – One tailed, Two Tailed, Right tailed, Left tailed: Sign Type of Test: Keyword to look for: Two tailed Test: Or Not, always, never  
Right Tailed Test: Lower than, Less than, Decreased  
Process: Formulate the hypothesis: Set the significance level: Decide the Test Statistic ( $z, t$ ): Find out the critical value: Make a conclusion: Use Z statistic when sample size is  $> 30$ : Use T statistic when sample size is  $< 30$  and/or Standard Deviation is Unknown: Calculation of Z statistic: Mean Difference of two mean  
Counting Proportion: Difference of two Proportions: Calculation of T statistic: Mean: Difference in two mean: Difference of two means with dependent samples: Chi Square Test: Interpolation  
Extrapolation  
Post navigation  
You're Reading a Free Preview  
Page 3 is not shown in this preview. This web page lists statistics formulas used in the Stat Trek tutorials. Each formula links to a web page that explains how to use the formula.  
Parameters  
Statistics  
Unless otherwise noted, these formulas assume simple random sampling.  
Correlation  
Simple Linear Regression  
Counting  
Probability  
Random Variables  
In the following formulas, X and Y are random variables, and a and b are constants.  
Sampling Distributions  
Standard Error  
Discrete Probability Distributions  
Linear Transformations  
For the following formulas, assume that Y is a linear transformation of the random variable X, defined by the equation:  $Y = aX + b$ .  
Estimation  
Hypothesis Testing  
Degrees of Freedom  
The correct formula for degrees of freedom (DF) depends on the situation (the nature of the test statistic, the number of samples, underlying assumptions, etc.).  
Sample Size  
Below, the first two formulas find the smallest sample sizes required to achieve a fixed margin of error, using simple random sampling. The third formula assigns sample to strata, based on a proportionate design. The fourth formula, Neyman allocation, uses stratified sampling to minimize variance, given a fixed sample size. And the last formula, optimum allocation, uses stratified sampling to minimize variance, given a fixed budget.  
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Oops! Something went wrong. Looks like Hollywood has sent a memo that this will be the year for all racing movies. The really great thing about making movies for car guys is that there isn't much that will keep us from watching a car movie. We'll put up with basically anything in order to see some good chase scenes, and it seems Born To Race Fast Track will at least deliver this much. At least from what we can tell by the trailer, the movie seems to have pretty good production value, and is both well directed and well shot, even if the writing and acting leaves something to be desired. But we're quite certain we'll end up seeing this, lame dialog or not. There are fast cars and loud engines. And nobody ever went broke putting pretty girls in their movies either.







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