Statistics - Notations

- Population Proportion P
- Sample Proportion p
- Set of population elements X
- Set of sample elements x
- Set of population size N
- Set of sample size n

- Population Mean μ
- Sample Mean $\bar{x}$
- Standard deviation of a population δ
- Standard deviation of a sample s

Population specific Parameters

- Population mean μ
- Standard deviation of a population δ
- Variance of a population μ^2
- Proportion of population elements having a particular attribute P
- Proportion of population elements having no particular attribute Q
- Population correlation coefficient based on all of the elements from a population ρ
- Number of elements in a population N

Sample specific Parameters

- Sample mean $\bar{x}$
- Standard deviation of a sample s
- Variance of a sample s^2
- Proportion of sample elements having a particular attribute p
- Proportion of sample elements having no particular attribute q
- Population correlation coefficient based on all of the elements from a sample r
- Number of elements in a sample.n

Linear Regression

- Intercept constant in a population regression line B_0
- Regression coefficient in a population regression line B_1
- Coefficient of determination R^2
- Intercept constant in a sample regression line b_0
- Regression coefficient in a sample regression line b_1
- Standard error of the slope of a regression line b^s_1

Permutation/Combination

- Factorial value of n $n!$
- Number of permutations of n things taken r at a time $^nP^r$
- Number of combinations of n things taken r at a time $^nC^r$