



Some Statistics Equations	
Parameters	Formulas
Population mean	$\mu = \frac{\sum X}{N}$
Population standard deviation	$\sigma = \sqrt{\frac{\sum (X - \mu)^2}{N}}$
Population variance	$\sigma^2 = \frac{\sum (X - \mu)^2}{N}$
Population correlation coefficient	$r = \frac{\sum (X - \mu)(Y - \mu)}{\sqrt{\sum (X - \mu)^2 \sum (Y - \mu)^2}}$
Statistics	Formulas
Sample mean	$\bar{x} = \frac{\sum x}{n}$
Sample standard deviation	$s = \sqrt{\frac{\sum (x - \bar{x})^2}{n - 1}}$
Sample variance	$s^2 = \frac{\sum (x - \bar{x})^2}{n - 1}$
Probability of sample proportion	$P(\hat{p}) = \frac{np}{n}$
Standard error of sample proportion	$SE_{\hat{p}} = \sqrt{\frac{p(1-p)}{n}}$
Sample mean confidence interval	$\bar{x} \pm z_{\alpha/2} \frac{s}{\sqrt{n}}$
Sample proportion confidence interval	$\hat{p} \pm z_{\alpha/2} \sqrt{\frac{\hat{p}(1-\hat{p})}{n}}$
Correlation	Formulas
Population correlation coefficient	$\rho = \frac{\sum (X - \mu)(Y - \mu)}{\sqrt{\sum (X - \mu)^2 \sum (Y - \mu)^2}}$
Sample correlation coefficient	$r = \frac{\sum (x - \bar{x})(y - \bar{y})}{\sqrt{\sum (x - \bar{x})^2 \sum (y - \bar{y})^2}}$
Linear correlation (regression line)	$y = a + bx$
Simple Linear Regression	$y = a + bx$
Regression coefficient	$b = \frac{\sum (x - \bar{x})(y - \bar{y})}{\sum (x - \bar{x})^2}$
Regression slope (intercept)	$a = \bar{y} - b\bar{x}$
Regression coefficient	$b = \frac{\sum (x - \bar{x})(y - \bar{y})}{\sum (x - \bar{x})^2}$
Standard error of regression slope	$SE_b = \frac{s}{\sqrt{\sum (x - \bar{x})^2}}$
Counting	Formulas
Permutation of n things, taken r at a time	$P(n, r) = \frac{n!}{(n-r)!}$
Combination of n things, taken r at a time	$C(n, r) = \frac{n!}{r!(n-r)!}$
Probability	Formulas
Mean of probability	$\mu = \sum xP(x)$
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