

Statistics Equations (Speedy Study Guides

Speedy Study Guides	STATISTICS EQUATIONS
Some Statistics Equations	
Parameters	Formulas
Population mean	$\mu = (\Sigma X) / N$
Population standard deviation	$\sigma = \sqrt{\text{var}} = \sqrt{(\Sigma X^2) / N - (\mu)^2}$
Population variance	$\sigma^2 = (\Sigma X^2) / N - (\mu)^2$
Variance of population proportion	$\sigma^2 = PQ / n$
Standardized score	$Z = (X - \mu) / \sigma$
Population correlation coefficient	$r = (\Sigma XY) / \sqrt{(\Sigma X^2)(\Sigma Y^2)}$
Statistics	Formulas
Sample mean	$\bar{x} = (\Sigma x) / n$
Sample standard deviation	$s = \sqrt{\text{var}} = \sqrt{(\Sigma x^2) / n - (\bar{x})^2}$
Sample variance	$s^2 = (\Sigma x^2) / n - (\bar{x})^2$
Variance of sample proportion	$\sigma^2 = pq / (n - 1)$
Pooled sample proportion	$p = (\text{no. of } x) / (\text{no. of } x + \text{no. of } y)$
Pooled sample standard deviation	$s = \sqrt{[(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2] / (n_1 + n_2 - 2)}$
Sample correlation coefficient	$r = (\Sigma xy) / \sqrt{(\Sigma x^2)(\Sigma y^2)}$
Correlation	Formulas
Pearson product-moment correlation	$r = (\Sigma xy) / \sqrt{(\Sigma x^2)(\Sigma y^2)}$
Linear correlation (sample data)	$r = (\Sigma xy) / \sqrt{(\Sigma x^2)(\Sigma y^2)}$
Linear correlation (population data)	$r = (\Sigma xy) / \sqrt{(\Sigma x^2)(\Sigma y^2)}$
Simple Linear Regression	$y = a + bx$
Simple linear regression line	$b = \text{var} / s^2$
Regression coefficient	$b = (\Sigma xy) / (\Sigma x^2 - (n)(\bar{x})^2)$
Regression slope intercept	$a = y - bx$
Regression coefficient	$b = (\Sigma xy) / (\Sigma x^2 - n\bar{x}^2)$
Standard error of regression slope	$s_b = \sqrt{(\text{var} - \text{regression}) / (n - 2)}$
Counting	Formulas
n factorial	$n! = n \times (n - 1) \times (n - 2) \times \dots \times 2 \times 1$
Permutations of n things, taken r at a time	$nPr = n! / (n - r)!$
Combinations of n things, taken r at a time	$nCr = n! / (r!(n - r)!)$
Probability	Formulas
Rule of addition	$P(A \cup B) = P(A) + P(B) - P(A \cap B)$
Rule of multiplication	$P(A \cap B) = P(A)P(B A)$
Rule of subtraction	$P(A - B) = P(A) - P(A \cap B)$
Rule of multiplication	$P(A \cap B) = P(A)P(B A)$
Rule of addition	$P(A \cup B) = P(A) + P(B)$

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Reviews

The most effective pdf i ever read through. I am quite late in start reading this one, but better then never. Its been developed in an exceedingly simple way in fact it is only soon after i finished reading through this pdf by which in fact altered me, modify the way i think.
(Audra King IV)

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