

Statistics Equations Answers (Speedy Study Guides)

Speedy Study Guides	
STATISTICS EQUATIONS & ANSWERS	
Statistics Equations	
Parameters	Formula
Population mean	$\mu = \sum (X) / N = \sum (\sum / N)$
Population variance	$\sigma^2 = \sum (X - \mu)^2 / N$
Variance of population proportion	$\sigma_{PQ}^2 = PQ / n$
Standardized score	$Z = (X - \mu) / \sigma$
Population correlation coefficient	$\rho = \frac{1}{N} \sum \left[\frac{(X - \mu_X)(Y - \mu_Y)}{\sigma_X \sigma_Y} \right] = \frac{\sum (XY) - \mu_X \mu_Y}{\sigma_X \sigma_Y}$
Statistics	Formula
Sample mean	$\bar{x} = \sum x / n$
Sample standard deviation	$s = \sqrt{\sum (x - \bar{x})^2 / (n - 1)}$
Sample variance	$s^2 = \sum (x - \bar{x})^2 / (n - 1)$
Variance of sample proportion	$\sigma_{pq}^2 = pq / (n - 1)$
Pooled sample proportion	$\bar{p} = \frac{p_1 n_1 + p_2 n_2}{n_1 + n_2}$
Pooled sample standard deviation	$s_p = \sqrt{\frac{(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2}{n_1 + n_2 - 2}}$
Sample correlation coefficient	$r = \frac{1}{n} \sum \left[\frac{(x - \bar{x})(y - \bar{y})}{s_x s_y} \right] = \frac{\sum (xy) - \bar{x} \bar{y} n}{s_x s_y}$
Correlation	
Pearson product-moment correlation	$r = \frac{\sum (xy) - \bar{x} \bar{y} n}{\sqrt{\sum (x - \bar{x})^2 \sum (y - \bar{y})^2}}$
Linear correlation (sample data)	$r = \frac{1}{n} \sum \left[\frac{(x - \bar{x})(y - \bar{y})}{s_x s_y} \right] = \frac{\sum (xy) - \bar{x} \bar{y} n}{s_x s_y}$
Linear correlation (population data)	$\rho = \frac{1}{N} \sum \left[\frac{(X - \mu_X)(Y - \mu_Y)}{\sigma_X \sigma_Y} \right] = \frac{\sum (XY) - \mu_X \mu_Y N}{\sigma_X \sigma_Y}$
Simple Linear Regression	
Simple linear regression line	$\hat{y} = b_0 + b_1 x$
Regression coefficient	$b_1 = \frac{\sum (x - \bar{x})(y - \bar{y})}{\sum (x - \bar{x})^2}$
Regression slope intercept	$b_0 = \bar{y} - b_1 \bar{x}$
Regression coefficient	$b_1 = r \left(\frac{s_y}{s_x} \right)$
Standard error of regression slope	$s_{b_1} = \frac{s}{\sqrt{\sum (x - \bar{x})^2}}$
Counting	
n factorial	$n! = n \cdot (n-1) \cdot (n-2) \cdot \dots \cdot 2 \cdot 1$. By convention, $0! = 1$
Permutations of n things, taken r at a time	$nPr = \frac{n!}{(n-r)!}$
Combinations of n things, taken r at a time	$nCr = \frac{n!}{r!(n-r)!}$
Probability	Formula
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	$P(A) = 1 - P(\bar{A})$
Rule of multiplication	$P(A \cap B) = P(A) P(B A)$
Rule of subtraction	$P(\bar{A}) = 1 - P(A)$
Random Variables	
Expected value of X	$E(X) = \mu = \sum (x \cdot P(x))$
Variance of X	$Var(X) = \sigma^2 = \sum (x - \mu)^2 P(x) = \sum (x^2 \cdot P(x)) - \mu^2$
Normal random variable	$Z\text{-score} = z = \frac{(X - \mu)}{\sigma}$
Chi-square statistic	$\chi^2 = \sum \frac{(O - E)^2}{E}$

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Reviews

These types of book is the greatest ebook readily available. I was able to comprehend every little thing using this published e pdf. I realized this pdf from my dad and i encouraged this publication to discover.

(Dr. Porter Mitchell)

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