

Statistics Equations Answers (Speedy Study Guides) (Paperback)



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

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Reviews

Great e book and beneficial one. It is amongst the most awesome pdf i actually have read through. You wont feel monotony at at any time of your own time (that's what catalogs are for relating to if you request me).

(Dorothy Daugherty)

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