

Statistics Equations Answers (Speedy Study Guides)

<div>Speedy Study Guides</div> <div>STATISTICS EQUATIONS & ANSWERS</div>	
Statistical Equations	
Parameters	Formula
Population mean	$\mu = \sum (X) / N = \sum (\sum f) / N$
Population variance	$\sigma^2 = \sum (X^2) / N - \mu^2$
Variance of population proportion	$\sigma_{pq}^2 = pq / n$
Standardized score	$Z = (X - \mu) / \sigma$
Population correlation coefficient	$\rho = \frac{1}{N} \sum \left[\frac{(X - \mu)(Y - \mu)}{\sigma_X \sigma_Y} \right] = \frac{\sum (XY) - n\mu_X \mu_Y}{n\sigma_X \sigma_Y}$
Statistics	Formula
Sample mean	$\bar{x} = \sum (X) / n$
Sample standard deviation	$s = \sqrt{\sum (x_i - \bar{x})^2 / (n - 1)}$
Sample variance	$s^2 = \sum (x_i - \bar{x})^2 / (n - 1)$
Variance of sample proportion	$\sigma_{pq}^2 = pq / n$
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	$r = \frac{1}{n} \sum \left[\frac{(x_i - \bar{x})(y_i - \bar{y})}{s_x s_y} \right] = \frac{\sum (xy) - n\bar{x}\bar{y}}{n s_x s_y}$
Correlation	Formula
Pearson product-moment correlation	$r = \frac{\sum (xy) - \sum x \sum y}{\sqrt{(\sum x^2 - \frac{(\sum x)^2}{n})(\sum y^2 - \frac{(\sum y)^2}{n})}}$
Linear correlation (sample data)	$r = \frac{1}{n} \sum \left[\frac{(x_i - \bar{x})(y_i - \bar{y})}{s_x s_y} \right] = \frac{\sum (xy) - n\bar{x}\bar{y}}{n s_x s_y}$
Linear correlation (population data)	$\rho = \frac{1}{N} \sum \left[\frac{(X - \mu_X)(Y - \mu_Y)}{\sigma_X \sigma_Y} \right] = \frac{\sum (XY) - N\mu_X \mu_Y}{N\sigma_X \sigma_Y}$
Simple Linear Regression	Formula
Simple linear regression line	$\hat{y} = b_0 + b_1 x$
Regression coefficient	$b_1 = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sum (x_i - \bar{x})^2}$
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	$s_{b_1} = \frac{s}{\sqrt{\sum (x_i - \bar{x})^2}}$
Counting	Formula
n factorial	$n! = n \times (n-1) \times (n-2) \times \dots \times 2 \times 1$. 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	Formula
Expected value of X	$E(X) = \sum (x_i \cdot p_i)$
Variance of X	$Var(X) = \sum (x_i^2 \cdot p_i) - [E(X)]^2 = \sum (x_i^2 \cdot p_i) - \left[\sum (x_i \cdot p_i) \right]^2$
Normal random variable	$Z = \frac{X - \mu}{\sigma}$
Chebyshev's statistic	$K_2 = \frac{1}{n} \sum (x_i - \bar{x})^2 / s^2$

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Reviews

Extensive information for ebook fans. It generally is not going to expense a lot of. I discovered this publication from my dad and i suggested this ebook to discover.

(Ivah West)

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