

Statistics Equations Answers (Speedy Study Guides)

Speedy Study Guides	
STATISTICS EQUATIONS & ANSWERS	
Statistics Equations	
Parameter	Formula
Population mean	$\mu = \frac{1}{N} \sum (X_i - \mu)^2 / N$
Population variance	$\sigma^2 = \frac{1}{N} \sum (X_i - \mu)^2 / N$
Variance of proportion	$\sigma_p^2 = p(1-p)$
Standard score	$Z = (X - \mu) / \sigma$
Population correlation coefficient	$\rho = \frac{1}{N} \sum (X_i - \mu_X)(Y_i - \mu_Y) / \sigma_X \sigma_Y$
Samples	
Sample mean	$\bar{x} = \frac{1}{n} \sum x_i$
Sample standard deviation	$s = \sqrt{\frac{1}{n} \sum (x_i - \bar{x})^2 / (n-1)}$
Sample variance	$s^2 = \frac{1}{n} \sum (x_i - \bar{x})^2 / (n-1)$
Variance of sample proportion	$\sigma_p^2 = p(1-p)$
Finite sample proportion	$p = \frac{1}{n} \sum x_i = \frac{1}{n} \sum (x_i - \bar{x})^2 / (n-1)$
Finite sample standard deviation	$s_p = \sqrt{\frac{1}{n} \sum (x_i - \bar{x})^2 / (n-1)}$
Sample correlation coefficient	$r = \frac{1}{n} \sum (x_i - \bar{x})(y_i - \bar{y}) / \sigma_X \sigma_Y$
Correlation	
Pearson product-moment correlation	$r = \frac{1}{n} \sum (x_i - \bar{x})(y_i - \bar{y}) / \sigma_X \sigma_Y$
Linear correlation (sample data)	$r = \frac{1}{n} \sum (x_i - \bar{x})(y_i - \bar{y}) / \sigma_X \sigma_Y$
Linear correlation (population data)	$\rho = \frac{1}{N} \sum (X_i - \mu_X)(Y_i - \mu_Y) / \sigma_X \sigma_Y$
Simple Linear Regression	
Simple linear regression line	$\hat{y} = a + bx$
Regression coefficient	$b = \frac{1}{n} \sum (x_i - \bar{x})(y_i - \bar{y}) / \sigma_X^2$
Regression slope intercept	$a = \bar{y} - b\bar{x}$
Regression coefficient	$b = \frac{1}{n} \sum (x_i - \bar{x})(y_i - \bar{y}) / \sigma_X^2$
Standard error of regression slope	$s_b = \sqrt{\frac{1}{n} \sum (y_i - \hat{y}_i)^2 / (n-2)}$
Counting	
n factorial	$n! = n \times (n-1) \times (n-2) \times \dots \times 1$
Permutations of n things, taken r at a time	$P(n, r) = \frac{n!}{(n-r)!}$
Combinations of n things, taken r at a time	$C(n, r) = \frac{n!}{r!(n-r)!}$
Probability	
Rule of addition	$P(A \cup B) = P(A) + P(B) - P(A \cap B)$
Rule of multiplication	$P(A \cap B) = P(A)P(B A)$
Rule of subtraction	$P(A) = 1 - P(\bar{A})$
Rule of multiplication	$P(A \cap B) = P(A)P(B A)$
Rule of subtraction	$P(A) = 1 - P(\bar{A})$
Random Variables	
Expected value of X	$E(X) = \sum x_i P(x_i)$
Variance of X	$V(X) = \sum (x_i - E(X))^2 P(x_i)$
Normal random variable	$Z = \frac{X - \mu}{\sigma}$
Chi-square statistic	$\chi^2 = \sum \frac{(O_i - E_i)^2}{E_i}$

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Reviews

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(Jaiden Turcotte DDS)

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