

# Statistics Equations Answers (Speedy Study Guides)

Parameter	Formula
Population mean	$\mu = \frac{\sum (X_i \cdot f_i)}{N}$
Population variance	$\sigma^2 = \frac{\sum (X_i - \mu)^2 \cdot f_i}{N}$
Variance of population proportion	$\sigma^2 = pq/n$
Standardized score	$Z = \frac{(X - \mu) / \sigma}{\sqrt{n}}$
Population correlation coefficient	$\rho = \frac{\sum (X_i - \mu_X)(Y_i - \mu_Y)}{\sqrt{\sum (X_i - \mu_X)^2 \sum (Y_i - \mu_Y)^2}}$
Samples	
Sample mean	$\bar{x} = \frac{\sum x_i}{n}$
Sample standard deviation	$s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$
Sample variance	$s^2 = \frac{\sum (x_i - \bar{x})^2}{n-1}$
Variance of sample proportion	$\frac{pq}{n} = \frac{pq}{n-1}$
Finite sample proportion	$p = \frac{\sum (x_i = 1)}{n}$
Finite sample standard deviation	$s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$
Sample correlation coefficient	$r = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sqrt{\sum (x_i - \bar{x})^2 \sum (y_i - \bar{y})^2}}$
Correlation	
Pearson product-moment correlation	$r = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sqrt{\sum (x_i - \bar{x})^2 \sum (y_i - \bar{y})^2}}$
Linear correlation (sample data)	$r = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sqrt{\sum (x_i - \bar{x})^2 \sum (y_i - \bar{y})^2}}$
Linear correlation (population data)	$\rho = \frac{\sum (X_i - \mu_X)(Y_i - \mu_Y)}{\sqrt{\sum (X_i - \mu_X)^2 \sum (Y_i - \mu_Y)^2}}$
Simple Linear Regression	
Sample linear regression line	$\hat{y} = a_0 + a_1 x$
Regression coefficient	$a_1 = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sum (x_i - \bar{x})^2}$
Regression slope intercept	$a_0 = \bar{y} - a_1 \bar{x}$
Regression coefficient	$a_1 = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sum (x_i - \bar{x})^2}$
Standard error of regression slope	$s_{a_1} = \frac{s}{\sqrt{\sum (x_i - \bar{x})^2}}$
Counting	
n factorial	$n! = n \cdot (n-1) \cdot (n-2) \cdot \dots \cdot 2 \cdot 1$
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	$P(A \cap B) = P(A) \cdot P(B A)$
Rule of subtraction	$P(A) - P(A \cap B)$
Rule of multiplication	$P(A \cap B) = P(A) \cdot P(B A)$
Rule of subtraction	$P(A) - P(A \cap B)$
Random Variables	
Expected value of X	$E(X) = \sum x_i \cdot p_i$
Variance of X	$V(X) = \sum (x_i - E(X))^2 \cdot p_i$
Normal variate variable	$Z = \frac{(X - \mu) / \sigma}{\sqrt{n}}$
Chi-square statistic	$\chi^2 = \sum \frac{(O_i - E_i)^2}{E_i}$

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## Reviews

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 (Estelle Donnelly)

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