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STATISTICS EQUATIONS ANSWERS (SPEEDY STUDY GUIDES) (PAPERBACK)



Statistics Equations & Answers	
Arithmetic mean	$\frac{1}{n} \sum_{i=1}^n x_i$
Population average	$\mu = \frac{1}{N} \sum_{i=1}^N x_i$
Sample mean	$\bar{x} = \frac{1}{n} \sum_{i=1}^n x_i$
Population standard deviation	$\sigma = \sqrt{\frac{1}{N} \sum_{i=1}^N (x_i - \mu)^2}$
Sample standard deviation	$s = \sqrt{\frac{1}{n} \sum_{i=1}^n (x_i - \bar{x})^2}$
Population variance	$\sigma^2 = \frac{1}{N} \sum_{i=1}^N (x_i - \mu)^2$
Sample variance	$s^2 = \frac{1}{n} \sum_{i=1}^n (x_i - \bar{x})^2$
Population correlation coefficient	$\rho = \frac{\sum_{i=1}^N (x_i - \mu)(y_i - \mu_y)}{\sqrt{\sum_{i=1}^N (x_i - \mu)^2 \sum_{i=1}^N (y_i - \mu_y)^2}}$
Sample correlation coefficient	$r = \frac{\sum_{i=1}^n (x_i - \bar{x})(y_i - \bar{y})}{\sqrt{\sum_{i=1}^n (x_i - \bar{x})^2 \sum_{i=1}^n (y_i - \bar{y})^2}}$
Population regression line	$y = \mu_y + \rho \frac{\sigma_y}{\sigma_x} (x - \mu_x)$
Sample regression line	$y = \bar{y} + r \frac{s_y}{s_x} (x - \bar{x})$
Population standard error	$\sigma_{\bar{x}} = \frac{\sigma}{\sqrt{N}}$
Sample standard error	$s_{\bar{x}} = \frac{s}{\sqrt{n}}$
Population confidence interval	$\mu \pm z_{\alpha/2} \frac{\sigma}{\sqrt{N}}$
Sample confidence interval	$\bar{x} \pm t_{\alpha/2} \frac{s}{\sqrt{n}}$
Population hypothesis test	$\mu \pm z_{\alpha/2} \frac{\sigma}{\sqrt{N}}$
Sample hypothesis test	$\bar{x} \pm t_{\alpha/2} \frac{s}{\sqrt{n}}$
Population chi-square test	$\chi^2 = \sum_{i=1}^N \frac{(x_i - \mu)^2}{\sigma^2}$
Sample chi-square test	$\chi^2 = \sum_{i=1}^n \frac{(x_i - \bar{x})^2}{s^2}$
Population F-test	$F = \frac{\sigma_1^2}{\sigma_2^2}$
Sample F-test	$F = \frac{s_1^2}{s_2^2}$
Population t-test	$t = \frac{\bar{x} - \mu}{\frac{\sigma}{\sqrt{n}}}$
Sample t-test	$t = \frac{\bar{x} - \bar{x}_0}{\frac{s}{\sqrt{n}}}$
Population z-test	$z = \frac{\bar{x} - \mu}{\frac{\sigma}{\sqrt{n}}}$
Sample z-test	$z = \frac{\bar{x} - \bar{x}_0}{\frac{s}{\sqrt{n}}}$

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