## Cheatography

## PSYC 300A Cheat Sheet by athenamarko via cheatography.com/166726/cs/34899/

## Correlations

Bivariate descriptive statistics: Two variables

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Univariate descriptive statistics: One variable
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 $\sum (x-\overline{x})^2 = Minimum$ 

Correlation: Measures the direction and degree of linear Relationship between two variables

Linear Relationship: When the relationship between two variables can be most accurately represented by a straight line

Y = bX+a

a = Y intercept (i.e., value of Y when X = 0)

## Formulas

Y = bX + a	Equation of the line
Mean X	$\Sigma X/N$
Deviation score	(X-X̄)
Squared deviation score	$(X-\bar{X})^2$
Sums of squares (SS)	$\sum (X-\bar{X})^2$
Variance (SD <sup>2</sup> )	SS/N
sample size	Ν
Standard deviation (SD)	$\sqrt{\text{SD}^2}$
Sum of products (SP)	$\sum (X-\bar{X})(Y-\bar{Y})$
Covariance (Cov)	SP/N



By athenamarko

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