

Statistical Formulas for Exams

$\sqrt{\frac{\sum(Y - \bar{Y})^2}{n-2}}$	$\sum XY - \frac{(\sum X)(\sum Y)}{n}$	$\frac{SS}{df}$	$\frac{SP}{SS_X}$	$\frac{\sum X}{n}$
$\sum(X - \bar{X})(Y - \bar{Y})$	$\frac{SS_{Between}}{SS_{Total}}$	N-1	pq-1	N-k
(N-k) - (n-1)	p-1	k-1	q-1	N-pq
$\frac{bX}{a}$	(p-1)(q-1)	$\frac{SS_{Between}}{SS_{Between} + SS_{Error}}$	$\sqrt{\frac{SS}{N}}$	$\frac{\sigma}{\sqrt{n}}$
$\frac{s}{\sqrt{n}}$	mean difference standard deviation	$\sqrt{\frac{SS}{n-1}}$	$\frac{SP}{\sqrt{(SS_x)(SS_y)}}$	$\sum \frac{A^2}{qn} - \frac{G^2}{N}$
$\frac{SS}{n-1}$	$\sum \frac{B^2}{pn} - \frac{G^2}{N}$	$q\sqrt{\frac{MS_{Error}}{n}}$	$\sqrt{\frac{S_p^2}{n_1} + \frac{s_p^2}{n_2}}$	$\sum \frac{(f_o - f_e)^2}{f_e}$
$\frac{\bar{X} - \mu}{s_{\bar{X}}}$	$\frac{(\bar{X}_1 - \bar{X}_2) - (\mu_1 - \mu_2)}{s_{\bar{X}_1 - \bar{X}_2}}$	$\sum \frac{AB^2}{n} - \frac{G^2}{N}$	$\frac{MS_{Treatment}}{MS_{Error}}$	$\frac{MS_B}{MS_{Within}}$
$\frac{X - pn}{\sqrt{npq}}$	$\sum X^2 - \frac{(\sum X)^2}{n}$	$\frac{MS_{AxB}}{MS_{Within}}$	$SS_{Within} - SS_{Subjects}$	$\sqrt{\frac{(1-r^2)SS_Y}{n-2}}$
$\frac{MS_{Between}}{MS_{Within}}$	$\frac{\bar{X} - \mu}{\sigma_{\bar{X}}}$	$\sum \frac{T^2}{n} - \frac{G^2}{N}$	$\frac{SS_{Between} - SS_{A'}}{SS_B}$	$\frac{\bar{D} - \mu_{\bar{D}}}{s_{\bar{D}}}$
$\sum X^2 - \frac{G^2}{N}$	$\frac{SS_1 + SS_2}{df_1 + df_2}$	$\frac{MS_A}{MS_{Within}}$	$\sum (X - \mu)^2$	$\sum \frac{P^2}{k} - \frac{G^2}{N}$
$\frac{X - \mu}{\sigma}$	$\frac{t^2}{t^2 + df}$	$\frac{SS}{N}$	$\bar{Y} - b\bar{X}$	$\frac{\bar{X}_1 - \bar{X}_2}{\sqrt{s_p^2}}$

