Variance: $\frac{\text{Sum of square}}{\text{degree of freedom}}$

Sum of square: $\Sigma X^2 - \frac{(\Sigma X)^2}{n}$

Standard deviation: $\sqrt{\text{Variance}}$

Standard Error: $\frac{\text{Standard deviation}}{\sqrt{n}}$

T-Value: $\frac{\overline{X_1} - \overline{X_2}}{SEDM}$

Least significant difference:

t Error d.f $\propto \sqrt{\frac{2 \times \text{Error mean square}}{\text{repeats}(r)}}$

chances of error

Chi-square test:

$x^2 = \frac{\Sigma (\text{Observed value} - \text{Expected value})^2}{\text{Expected value}}$