This table shows the most common tests for simple analysis of data.

Comparing:	Dependent variable	Independent variable	Parametric test (Dependent variable is normally distributed)	Non-parametric test
The means of two INDEPENDENT groups	Continuous/ scale	Categorical/ nominal	Independent t-test Also known as 2 sample t-test	Mann-Whitney test
The means of 2 paired (matched) samples e.g. weight before and after a diet for one group of subjects	Continuous/ scale	Time variable (time 1 = before, time 2 = after)	Paired t-test Also known as the dependent sample t-test	Wilcoxon signed rank test
The means of 3+ independent groups	Continuous/ scale	Categorical/ nominal	One-way ANOVA	Kruskal-Wallis test
The 3+ measurements on the same subject	Continuous/ scale	Time variable	Repeated measures ANOVA	Friedman test
Relationship between 2 continuous variables	Continuous/ scale	Continuous/ scale	Pearson's Correlation Co-efficient	Spearman's Correlation Co-efficient (also use for ordinal data)
Predicting the value of one variable from the value of a predictor variable	Continuous/ scale	Any	Simple Linear Regression	
Assessing the relationship between two categorical variables	Categorical/ nominal	Categorical/ nominal	Chi-squared test	