Data	Information sought	Experimental context	Analysis
Interval/ratio	Whether sample mean differs from population mean	Measure taken on 1 random sample	t-test
	Whether significant differences exist between/among sets of scores	2 independent groups	t-test (independent groups)
		Matched groups or 1 group measured twice	t-test (repeated measures correlated samples)
		3 or more independent groups	ANOVA (independent group)
		1 group measured 3 or more times	ANOVA (repeated measures)
	Kind and degree of relationship	1 group measured on 2 variables	Product-moment correlation
	Prediction of one variable from another	1 group measured on 2 variables	regression
Ordinal	Whether significant difference exists between 2 sets of scores	2 independent groups	Mann-whitney U-test
	Kind and degree of relationship	1 group measured on 2 variables	Kendall's tau
Nominal	Whether observed frequencies differ from expected frequencies	Observed frequencies compared to theoretical expectations	Chi-square (test of independence)
	Whether variables are independent or related	Subjects or elements classified on 2 variable dimensions	Chi-square (test of independence)
	Probability of occurrence	Occurrence of r favorable outcomes in a total of n opportunities	Binomial test