

What kind of question are you asking?

What's the typical GPA of this class?

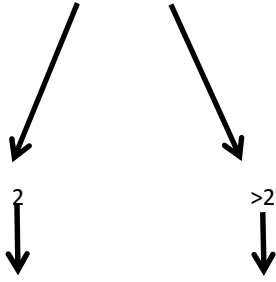
Descriptive



What scale are the variables of interest?

Relational

Do you have 2 or more than 2 variables?



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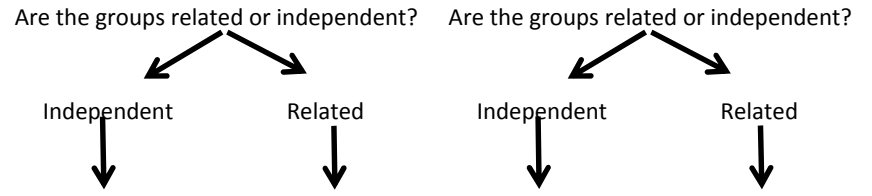
Does number of hours studied relate to higher GPA?

Comparison

Do girls have higher average GPA than boys?

Do you have 1 or more than 1 independent variables?

1 < >1



What is the scale of the dependent variable?

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Nominal

Frequency Counts; Percentages; Mode

Contingency coefficient (Phi)

Multiple logistic regression

Chi-square

McNemar test (2 groups) or Cochran Q test (>2 groups)

Chi-square

Cochran Q test

Ordinal

Mode; Median; Range

Rank-order coefficient

Multiple regression

Mann-Whitney U test

Wilcoxon signed ranks test or Friedman ANOVA

Kruskal Wallis ANOVA

Friedman Two-Way ANOVA

Interval/ Ratio

Mode; Median; Mean; Range; SD; quartiles

Product-moment correlation coefficient

Multiple regression

Independent samples t-test or One-Way ANOVA (between subjects)

Paired-samples t-test or One-way ANOVA (within subjects)

Factorial ANOVA (between subjects)

Factorial ANOVA (within subjects)