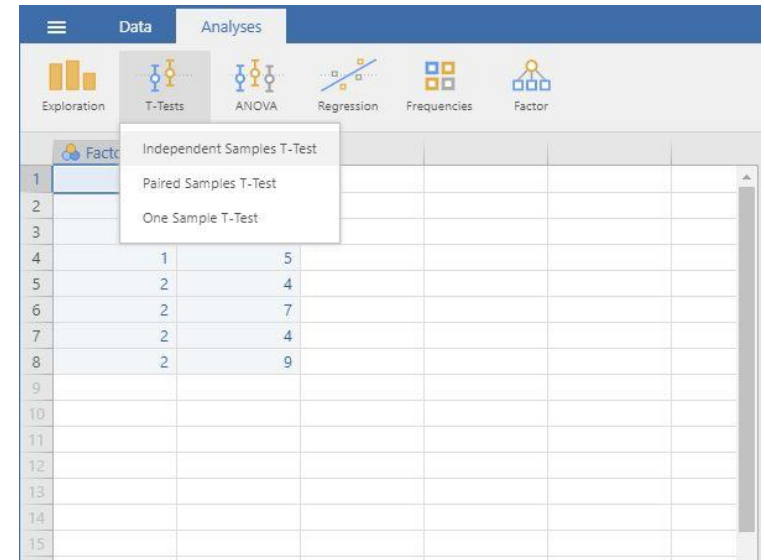


Independent Samples t Test

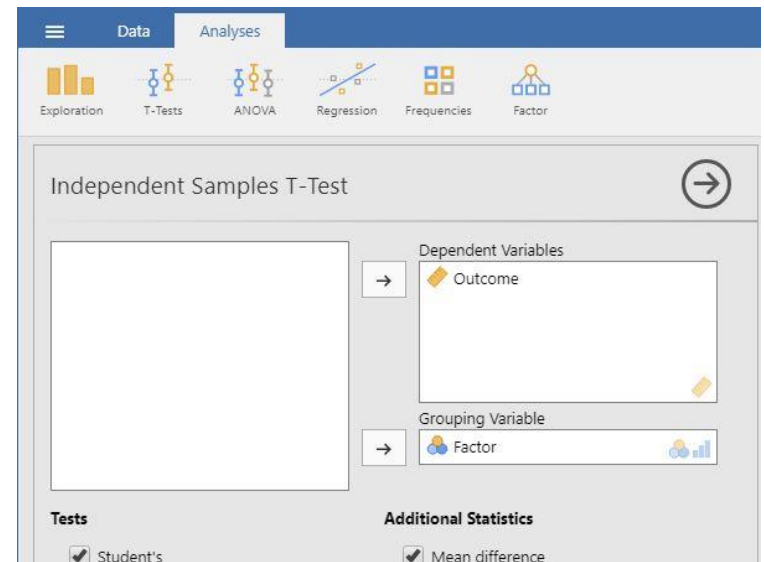
Selecting the Analysis

1. First, enter two sample data (described elsewhere).
2. On the “Analysis” tab, select the “T-Tests → Independent Samples T-Test” option.



Obtaining Inferential Statistics

3. A set of options will then appear for you to choose the variables and statistics of interest.
4. Select the outcome variable and click the arrow to move it into the “Dependent Variables” box.
5. Move the Independent Variable to the “Grouping Variable” box.
6. Output will automatically appear on the right side of the window.



Obtaining Additional Statistics

7. If you wish to view (and alter) the width of the confidence interval, check the “Confidence Interval” box.
8. Similarly, select other options that are important for you: “Mean Difference” will display the size of the difference between the two group’s means; “Effect size” will display Cohen’s d; and “Descriptives” will offer means and standard deviations for each group.
9. Updated output will automatically appear on the right side of the window.

The screenshot shows the 'Additional Statistics' dialog box in SPSS. It is divided into several sections:

- Tests:** Includes checkboxes for 'Student's' (checked), 'Bayes factor', 'Welch's', and 'Mann-Whitney U'. A 'Prior' field is set to 0.707.
- Hypothesis:** Includes radio buttons for 'Group 1 ≠ Group 2' (selected), 'Group 1 > Group 2', and 'Group 1 < Group 2'.
- Missing values:** Includes radio buttons for 'Exclude cases analysis by analysis' (selected) and 'Exclude cases listwise'.
- Additional Statistics:** Includes checkboxes for 'Mean difference' (checked), 'Effect size' (checked), 'Confidence interval' (checked), 'Descriptives' (checked), and 'Descriptives plots' (unchecked). An 'Interval' field is set to 95 %.
- Assumption Checks:** Includes checkboxes for 'Normality (Shapiro-Wilk)', 'Normality (Q-Q plot)', and 'Equality of variances', all of which are unchecked.

Your data have now been analyzed!