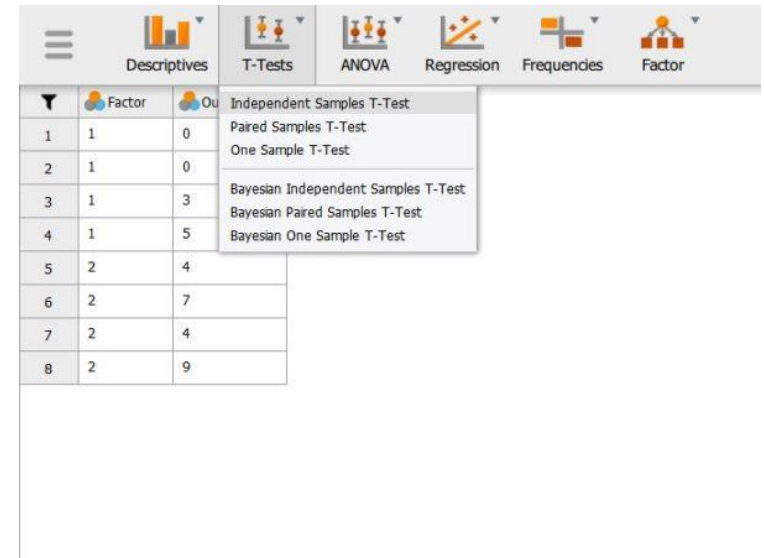


# Independent Samples t Test

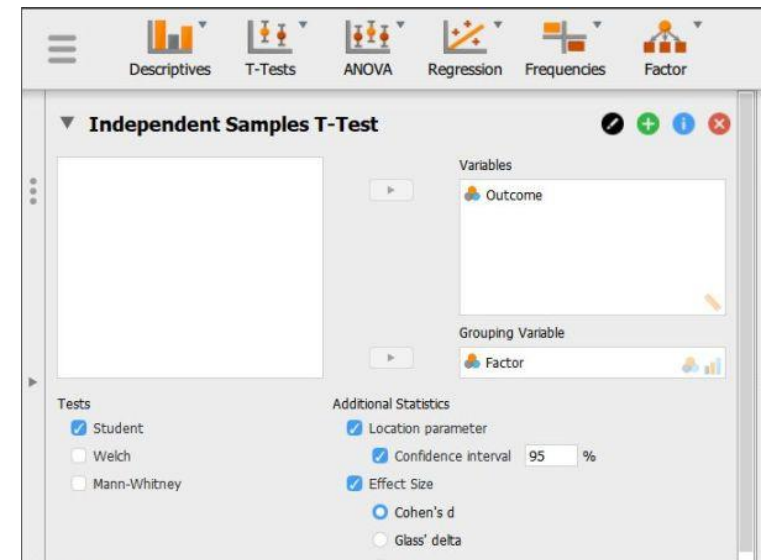
## Selecting the Analysis

1. First, enter two sample data (described elsewhere).
2. In the "Analyses" section of the menu, 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. Select the options that are important for you: “Location parameter” 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.
8. If you wish to view (and alter) the widths of the confidence intervals, check the “Confidence Interval” boxes.
9. Updated output will automatically appear on the right side of the window.

The screenshot shows the 'Additional Statistics' dialog box in SPSS. The 'Grouping Variable' is set to 'Factor'. The 'Tests' section has 'Student' checked. The 'Alt. Hypothesis' section has 'Group 1 ≠ Group 2' selected. The 'Assumption Checks' section has 'Normality' and 'Equality of variances' unchecked. The 'Additional Statistics' section has 'Location parameter' checked, with 'Confidence interval' set to 95%. 'Effect Size' is checked, with 'Cohen's d' selected. 'Descriptives' is checked, with 'Confidence interval' set to 95%. 'Descriptives plots' and 'Vovk-Sellke maximum p-ratio' are unchecked. The 'Missing Values' section has 'Exclude cases analysis by analysis' selected.

Grouping Variable  
Factor

Tests  
☒ Student  
☐ Welch  
☐ Mann-Whitney

Alt. Hypothesis  
☒ Group 1 ≠ Group 2  
☐ Group 1 > Group 2  
☐ Group 1 < Group 2

Assumption Checks  
☐ Normality  
☐ Equality of variances

Additional Statistics  
☒ Location parameter  
☒ Confidence interval 95 %  
☒ Effect Size  
☒ Cohen's d  
☐ Glass' delta  
☐ Hedges' g  
☐ Confidence interval 95 %  
☒ Descriptives  
☐ Descriptives plots  
Confidence interval 95 %  
☐ Vovk-Sellke maximum p-ratio

Missing Values  
☒ Exclude cases analysis by analysis  
☐ Exclude cases listwise