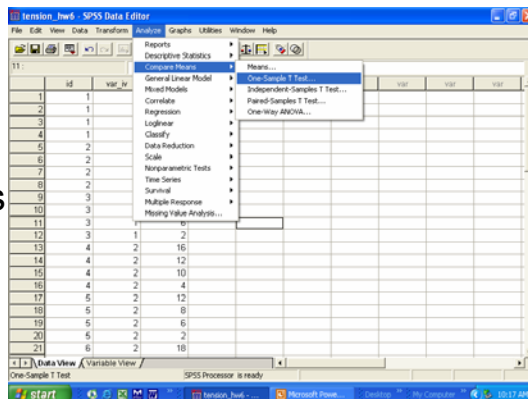# SPSS T-Test Tutorial

Single Sample T
Independent Samples T
Paired Samples T
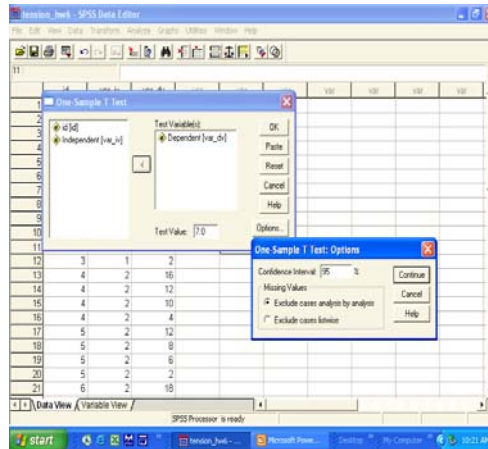

Single Sample t-test

- Open data file

Select:

1. Analyze
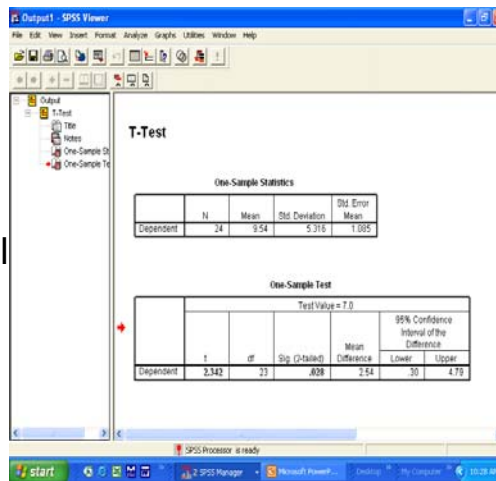2. Compare Means
3. One Sample
   T-Test

Single Sample t-test

- Move DV to 'test variables'
- Type in desired test value (μ)
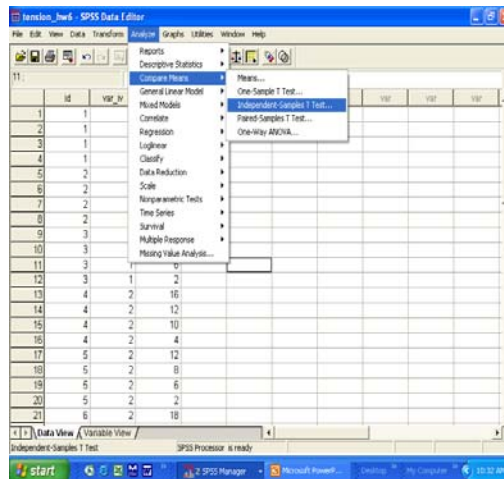- Options: choose a confidence interval. (95% is default)

- Click OK

Single Sample t-test: output

Provides:
- Descriptives
- Test statistic t
- df and p-value
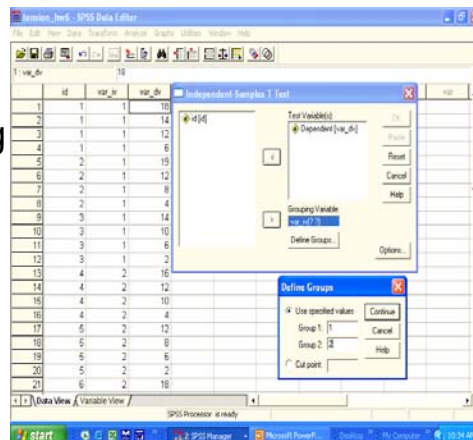- Confidence Interval of mean difference

- Compare p to α

Independent Samples t-test

- Open data file

Select:

1. Analyze
2. Compare Means
3. Independent Samples T-Test

Independent Samples t-test

- Move DV to 'test variables'
- Move IV to 'grouping variables'
- Define groups as assigned in data file

- Click OK

Independent Samples t-test: output

Provides:

- Descriptives
- Test for equality of variance (if significant → use bottom t)
- Test statistic t
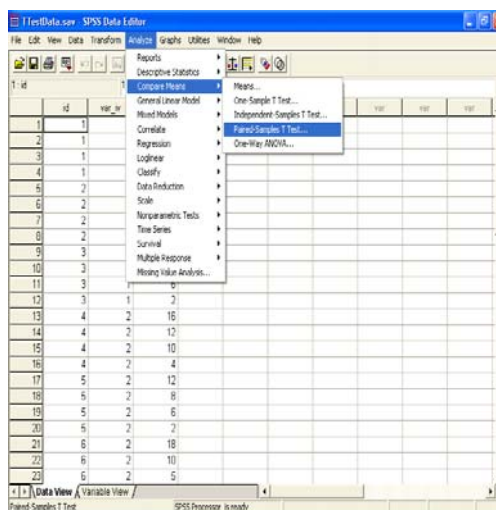- df and p-value
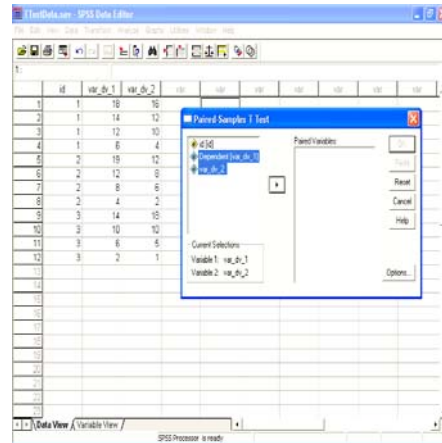- Confidence Interval of mean difference

Paired Samples t-test

- Open data file

Select:

1. Analyze
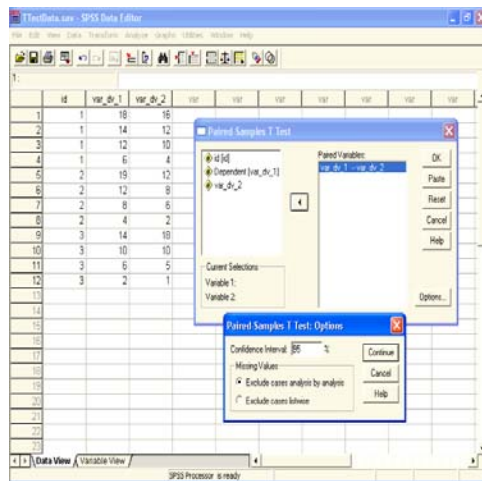2. Compare Means
3. Paired-Samples T-Test

Paired Samples t-test

- Variables must be un-stacked (side by side)
1. Select 1st DV, then the 2nd
2. Click on the arrow to move the pair to the "Paired Variables" box

Paired Samples t-test

3. Modify Confidence Interval as desired
4. Click Continue

5. Click OK

Paired Samples t-test: output

Provides:

- Descriptives for each
- Descriptives for difference
- Correlation
- Test statistic t
- df and p-value
- Confidence Interval of mean difference