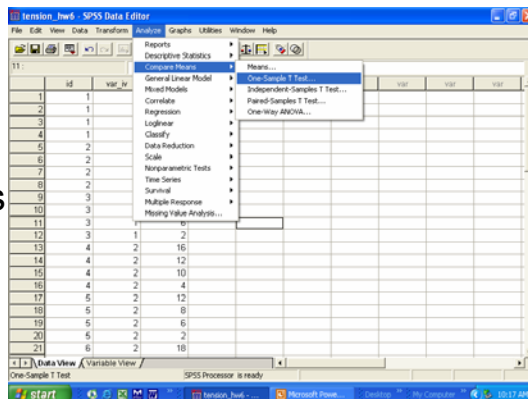


SPSS T-Test Tutorial

Single Sample T
Independent Samples T
Paired Samples T

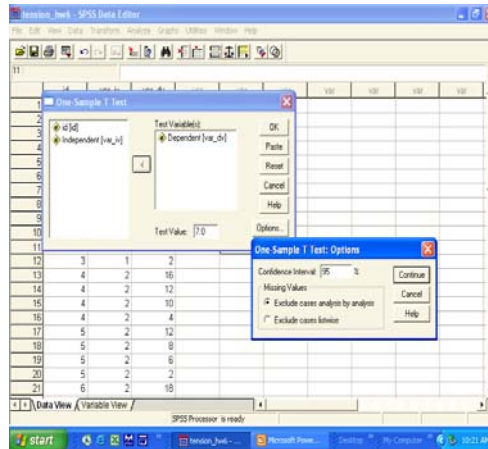
Single Sample t-test

- Open data file
- Select:
1. Analyze
 2. Compare Means
 3. One Sample T-Test



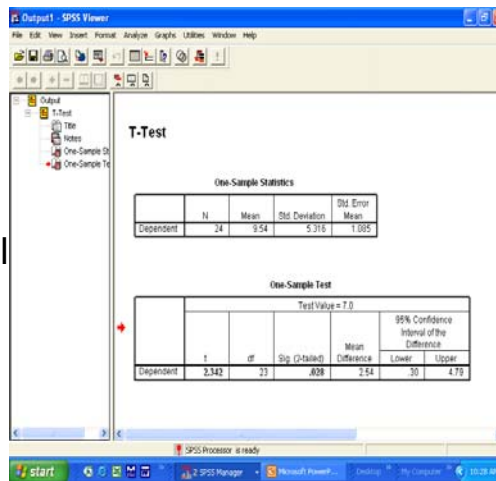
Single Sample t-test

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



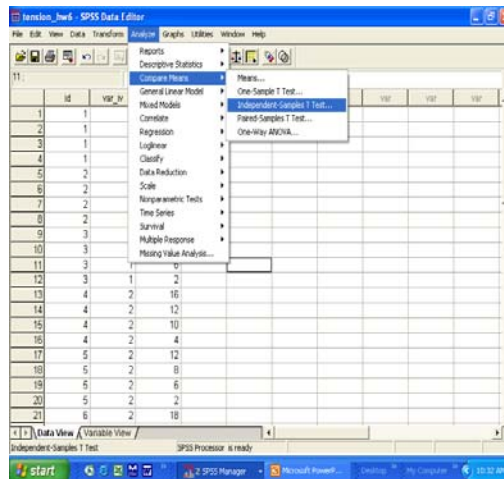
Single Sample t-test: output

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



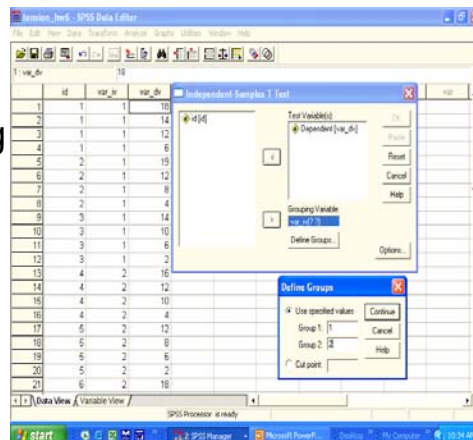
Independent Samples t-test

- 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

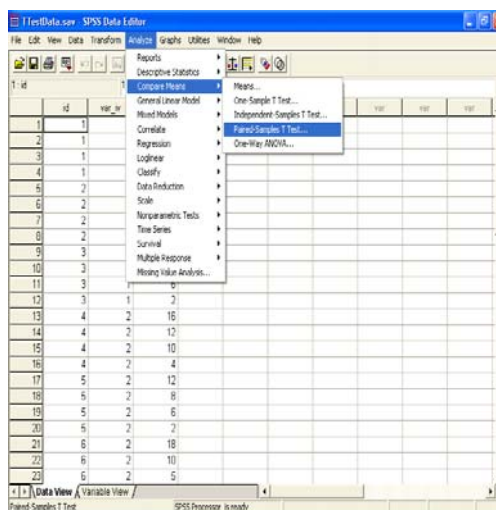
The screenshot shows the SPSS Output Viewer window. It displays two tables: 'Group Statistics' and 'Independent Samples Test'.

Group Statistics				
Independent	N	Mean	Std. Deviation	Std. Error Mean
High School	12	8.42	5.354	1.554
Undergrad	12	8.67	5.221	1.526

Independent Samples Test					
		Levene's Test for Equality of Variances		t-Test	
		F	Sig.	t	Sig. (2-tailed)
Independent	Equal variances assumed	.005	.942	.800	.422
	Equal variances not assumed			.800	.422

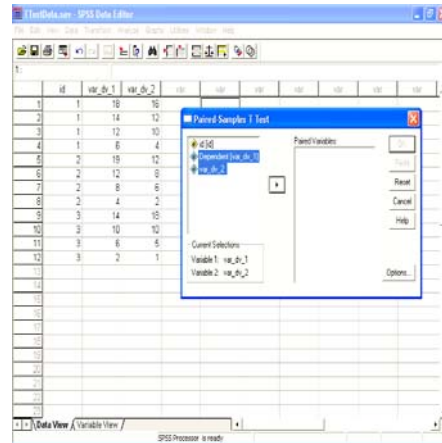
Paired Samples t-test

- Open data file
- Select:
1. Analyze
 2. Compare Means
 3. Paired-Samples T-Test



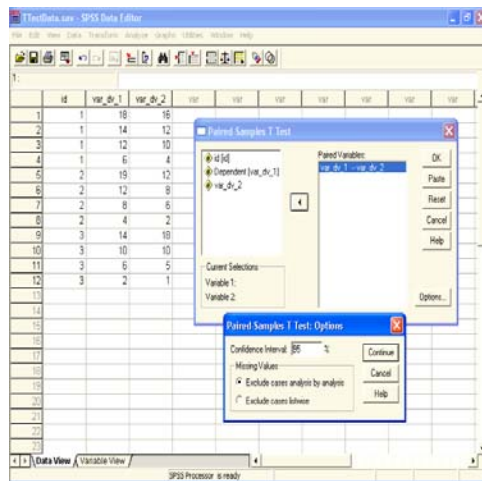
Paired Samples t-test

- 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

The screenshot shows the SPSS Output Viewer window for a T-Test. It contains three tables: Paired Samples Statistics, Paired Samples Correlations, and Paired Samples Test.

Pair	Mean	N	Std. Deviation	Std. Error Mean
1 VAR_CV_1	10.42	12	5.284	1.554
2 VAR_CV_2	8.87	12	5.221	1.534

Pair 1	N	Correlation	Sig.
VAR_CV_1 & VAR_CV_2	12	.889	.000

Pair 1	VAR_CV_1 - VAR_CV_2	Mean		Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig.
		Lower	Upper							
		1.75	2.527	7.20	14	3.26	2.209	11		