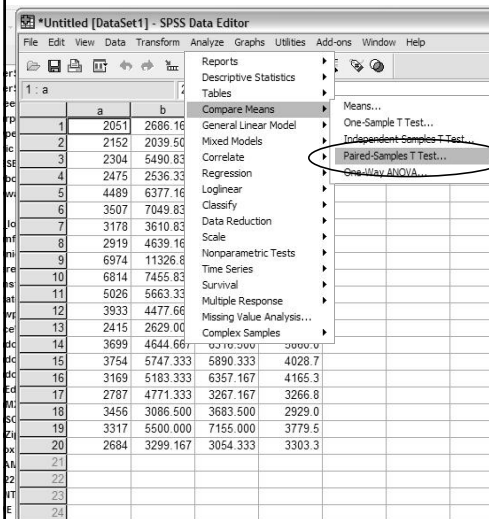


Analysis #1

Running a T-Test

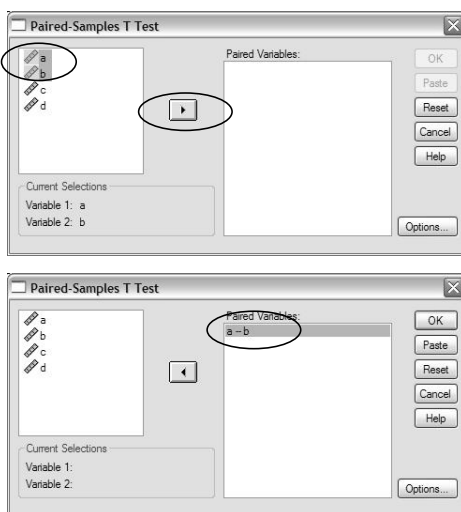
1



Running a T-test

Under 'Analyze', choose 'Compare Means' and 'Paired-Samples T Test'

2



Running a T-test

This window will open.

Choose which two conditions to compare by highlighting them and clicking the arrow.

Then, click 'OK'.

3

Running a T-test

This will be the output in the Output Viewer

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 a	3555	20	1375.0	307.5
b	4911	20	2157.0	482.3

		Paired Differences				t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	a - b	-1355.7	1284.4	287.2	-1956.8	-754.6	-4.720	19	.000

4

Running a T-test

Pair		Mean	N	Std. Deviation	Std. Error Mean
1	a	3555	20	1375.0	307.5
	b	4911	20	2157.0	482.3

The first part gives you the mean, standard deviation, and the standard error for each variable

5

Running a T-test

The second part includes the t-value and the result of the T test.

This is what you will need for reporting the data.

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	a - b	-1355.7	1284.4	287.2	-1956.8	-754.6	-4.720	19	.000

Sometimes you will see a bunch of stars in some cells of the table. To change this, right click, choose 'SPSS Pivot Table Object' and 'Edit'. Now you can right click on one or several cells and change the cell properties. You have to adjust the category to number and determine the number of decimals displayed.

6

Reporting the results of a T-test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	a - b	-1355.7	1284.4	287.2	-1956.8	-754.6	-4.720	19	.000

"A two-tailed paired T-test was carried out to test the difference between the 'auch' and 'vorher' condition for significance. The reading time in the 'auch' condition was significantly smaller than in the 'vorher' condition ($t(19) = 4.72, p < .001$)"

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