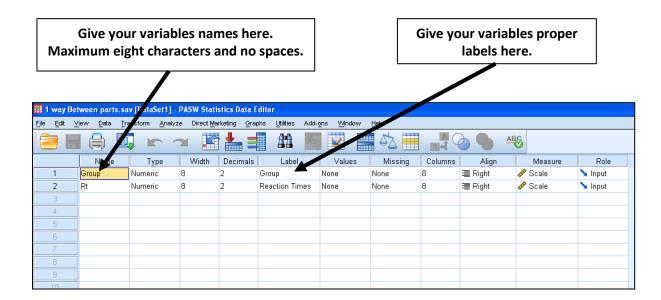
### One Way Between Participants ANOVA

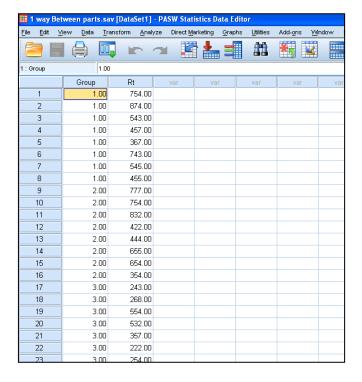
## A. Arranging your data

Click on the 'Variable View' window.



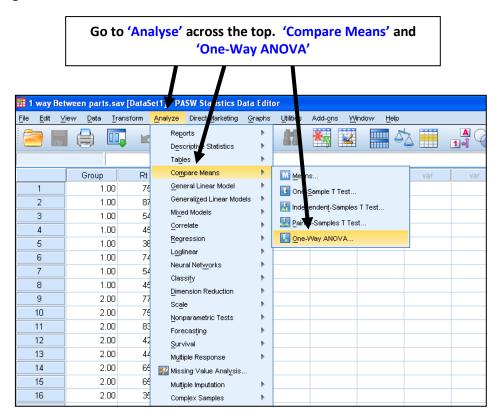
Click on the 'Data View' window.

As this is a between participants design, you need to define the between participants factors. Below it is 1, 2 and 3.



Dr Martin Graff

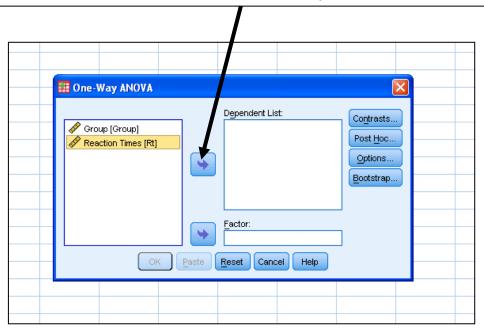
### B. Running the ANOVA

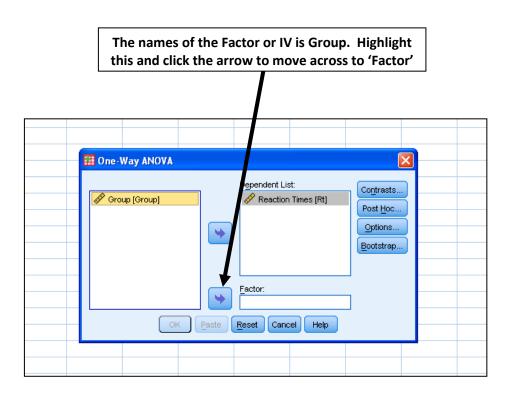


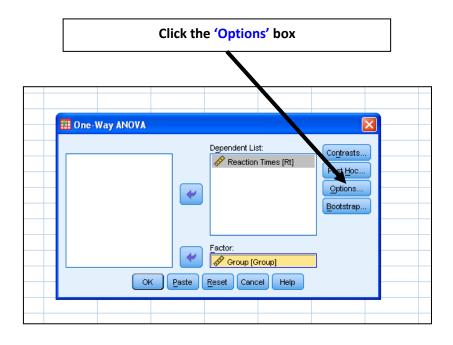
You will then see a box appear which looks like the one below

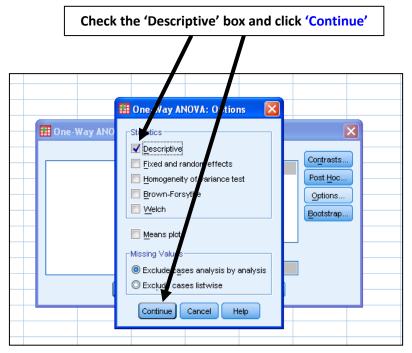


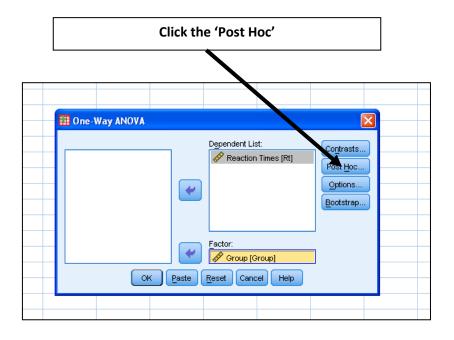
The name of your dependent variable is Reaction Time (RT). Highlight this, and click on the arrow to move it over to the Dependent Variable box.

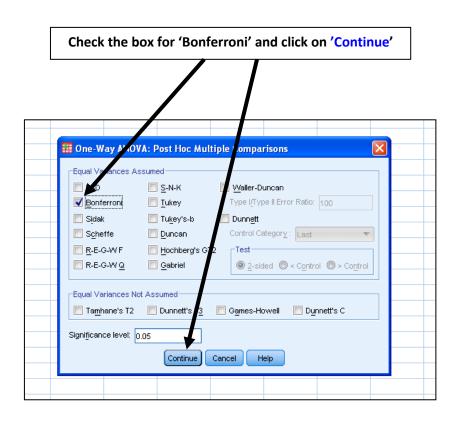


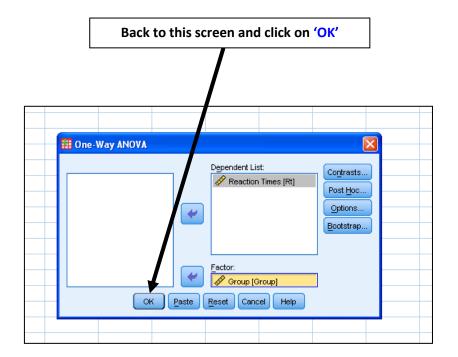








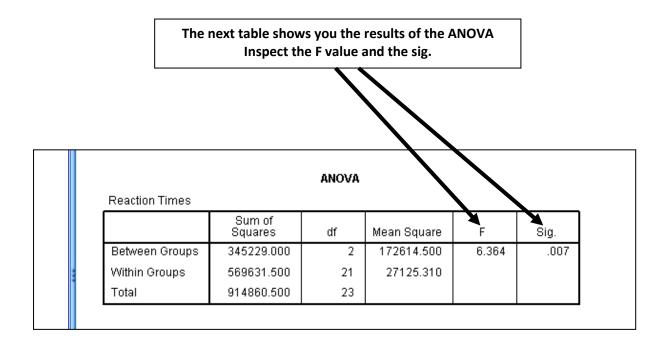




# **The Output**

On this part of the output, you can see the differences in the means between the groups'

	<b>Descriptives</b> Reaction Times								
						95% Confidence Interval for Mean			
m		N	Mean	Std. Deviation	Std. Error	Lower Bound	Upper Bound	Minimum	Maximum
	1.00	8	592.2500	177.60208	62.79182	443.7709	740.7291	367.00	874.00
	2.00	8	611.5000	181.37885	64.12711	459.8635	763.1365	354.00	832.00
	3.00	8	348.0000	130.13509	46.00970	239.2043	456.7957	222.00	554.00
	Total	24	517.2500	199.44058	40.71064	433.0336	601.4664	222.00	874.00



The final table, gives the results of the post hoc comparisons.
Inspect the column labelled 'Sig' to determine differences
between the groups

#### **Post Hoc Tests** Multiple Compariso Reaction Times Bonferroni (I) Group (J) Group 95% Confidence Interval Mean Difference (I-J) Std. Error Sig. Lower Bound Upper Bound 1.00 2.00 -19.25000 82.34882 1.000 -233.4681 194.9681 3.00 244.25000<sup>\*</sup> 82.34882 .022 30.0319 458.4681 -194.9681 19.25000 82.34882 1.000 233.4681 2.00 1.00 3.00 263.50000° 82.34882 .013 49.2819 477.7181 -244.25000<sup>\*</sup> -458.4681 -30.0319 3.00 1.00 82.34882 .022 2.00 -263.50000<sup>\*</sup> 82.34882 .013 -477.7181 -49.2819 \*. The mean difference is significant at the 0.05 level.