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One-Wa	ay A	4N)	OVA	Exa	mpi	le
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Anova: Single Fac	tor					
SUMMARY						
Groups	Count	Sum	Average	Variance		
Location 1	5	56	11.2	6.7		
Location 2	5	90	18	18.5		
Location 3	5	48	9.6	13.8		
ANOVA						
Source of Variatior	SS	df	MS	F	P-value	F crit
Between Groups	198.9	2	99.46667	7.6513	0.0072	3.885
Within Groups	156	12	13			
Total	354.9	14				









- It may be tempting to do a series of t tests on pairs of factors levels. DON'T do this.
- The overall Type I error rate (alpha) of the set of pairwise comparisons is far higher than the fixed alpha level. This means that many of the means will appear significantly different when they are not.
- Post Hoc tests fix the alpha level for the entire set of comparisons.

Module 3.3

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Openetic and the second statistical software package is a real help in carrying these out. Excel does not do any of these, you will need to tell Excel how to do the calculations (type the equations in in other words).











