VassarStats Printable Report

http://faculty.vassar.edu/lowry/VassarStats.html

2x2 Factorial ANOVA for Independent Samples
standard weighted-means analysis

INTRODUCIR DATOS

Data Entered				
	Col 1	**Col 2**	**Col 3**	**Col 4**
Row 1	9 3	29 31	---	---
Row 2	12 8	15 13	---	---
Row 3	---	---	---	---
Row 4	---	---	---	---

Summary Data	Within each box: Item 1 = N Item 2 = ΣX Item 3 = Mean Item 4 = ΣX^2 Item 5 = Variance Item 6 = Std. Dev. Item 7 = Std. Err.				
	C1	**C2**	**C3**	**C4**	**Tot.**
R1	2 12 6 90 18 4.24 3	2 60 30 1802 2 1.41 1	---	---	4 72 18 1892 198.67 14.09 7.05
R2	2 20 10 208 8 2.83 2	2 28 14 394 2 1.41 1	---	---	4 48 12 602 8.67 2.94 1.47
R3	---	---	---	---	---
R4	---	---	---	---	---

Tot.	4 32 8 298 14 3.74 1.87	4 88 22 2196 86.67 9.31 4.65	---	---	8 120 15 2494 99.14 9.96 3.52

ANOVA Summary

Source	SS	df	MS	F	P
Rows	72	1	72	9.6	0.0363
Columns	392	1	392	52.27	0.0019
r x c	200	1	200	26.67	0.0067
Error	30	4	7.5		
Total	694	7			

Critical Values for the Tukey HSD Test

	HSD[.05]	HSD[.01]
Rows [2]	5.38	8.91
Columns [2]	5.38	8.91
Cells [4]	11.15	17.57

HSD=the absolute [unsigned] difference between any two means (row means, column means, or cell means) required for significance at the designated level: HSD[.05] for the .05 level; HSD[.01] for the .01 level. The HSD test between row means can be meaningfully performed only if the row effect is significant; between column means, only if the column effect is significant; and between cell means, only if the interaction effect is significant.