



File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

6 :

	score	factor	var	var	var	var	var	var	var
1	2	1							
2	3	1							
3	7	1							
4	10	2							
5	8	2							
6	7	2							
7	10	3							
8	13	3							
9	14	3							
10									
11									
12									
13									
14									
15									

One-Way ANOVA: Post Hoc Multiple Comparisons

Equal Variances Assumed

- ☒ LSD
- ☐ Bonferroni
- ☐ Sidak
- ☐ Scheffe
- ☐ R-E-G-W F
- ☐ R-E-G-W Q
- ☐ S-N-K
- ☐ Tukey
- ☐ Tukey's-b
- ☐ Duncan
- ☐ Hochberg's GT2
- ☐ Gabriel
- ☐ Waller-Duncan
- Type I/Type II Error Ratio: 100
- ☐ Dunnett
- Control Category: Last
- Test: ☒ 2-sided ☐ < Control ☐ > Control

Equal Variances Not Assumed

- ☐ Tamhane's T2
- ☐ Dunnett's T3
- ☐ Games-Howell
- ☐ Dunnett's C

Significance level: 0.05

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9	14	3				
10						
11						
12						
13						

One-Way ANOVA: Options

Statistics

- ☒ Descriptive
- ☐ Fixed and random effects
- ☐ Homogeneity of variance test
- ☐ Brown-Forsythe
- ☐ Welch
- ☐ Means plot

Missing Values

- ☒ Exclude cases analysis by analysis
- ☐ Exclude cases listwise

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## SPSS Output Window

After running descriptive statistics and One-Way ANOVA, the results appear in a different window, known as SPSS output viewer window as shown below.

## Descriptives

score								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	4.00	2.646	1.528	-2.57-	10.57	2	7
2	3	8.33	1.528	.882	4.54	12.13	7	10
3	3	12.33	2.082	1.202	7.16	17.50	10	14
Total	9	8.22	4.055	1.352	5.11	11.34	2	14

ANOVA					
score					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	104.222	2	52.111	11.439	.009
Within Groups	27.333	6	4.556		
Total	131.556	8			

اعتماد قيمة Sig لتحديد الفرق المعنوي

  

Post Hoc Tests						
Multiple Comparisons						
Dependent Variable: score						
LSD						
(I) sample	(J) sample	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	-4.333*	1.743	.047	-8.60-	-.07-
	3	-8.333*	1.743	.003	-12.60-	-4.07-
2	1	4.333*	1.743	.047	.07	8.60
	3	-4.000-	1.743	.061	-8.26-	.26
3	1	8.333*	1.743	.003	4.07	12.60
	2	4.000	1.743	.061	-.26-	8.26

\*. The mean difference is significant at the 0.05 level.

**Note:**

\*If sig value > 0.05 there is **no** significant difference

\*If sig value < 0.05 there is a significant difference

