

*Untitled1 [DataSet0] - IBM SPSS Statistics Data Editor

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

	Degree	Groups	var	var	var	var	var	var	var	var	var	var
1	75	1										
2	77	1										
3	79	1										
4	81	1										
5	83	1										
6	80	2										
7	82	2										
8	84	2										
9	86	2										
10	88	2										
11	70	3										
12	72	3										
13	74	3										
14	76	3										
15	78	3										
16												
17												
18												

One-Way ANOVA: Post Hoc Multiple Comparisons

Equal Variances Assumed

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

Equal Variances Not Assumed

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

Significance level: 0.05

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19												
20												

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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Contrasts... Post Hoc... Options... Bootstrap...

→ Oneway

[DataSet0]

Descriptives

Degree

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	5	79.00	3.162	1.414	75.07	82.93	75	83
2	5	84.00	3.162	1.414	80.07	87.93	80	88
3	5	74.00	3.162	1.414	70.07	77.93	70	78
Total	15	79.00	5.141	1.327	76.15	81.85	70	88

Test of Homogeneity of Variances

Degree

Levene Statistic	df1	df2	Sig.
.000	2	12	1.000

ANOVA

Degree

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	250.000	2	125.000	12.500	.001
Within Groups	120.000	12	10.000		
Total	370.000	14			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Degree

Tukey HSD

(I) Groups	(J) Groups	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	-5.000	2.000	.067	-10.34	.34
	3	5.000	2.000	.067	-.34	10.34
2	1	5.000	2.000	.067	-.34	10.34
	3	10.000*	2.000	.001	4.66	15.34
3	1	-5.000	2.000	.067	-10.34	.34
	2	-10.000*	2.000	.001	-15.34	-4.66

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

Homogeneous Subsets

Degree

Tukey HSD^a

Groups	N	Subset for alpha = 0.05	
		1	2
3	5	74.00	
1	5	79.00	79.00
2	5		84.00
Sig.		.067	.067

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.