```
ONEWAY Idea_units_score LC_units_score BY IELTS
  /STATISTICS DESCRIPTIVES HOMOGENEITY BROWNFORSYTHE WELCH
  /PLOT MEANS
  /MISSING ANALYSIS
  /POSTHOC=TUKEY ALPHA(0.05).
```

Oneway

Notes

Output Created		01-SEP-2021 14:46:42
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\L2\SPSS\SPSS.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	38
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.

Syntax		ONEWAY Idea_units_score LC_units_score BY IELTS /STATISTICS DESCRIPTIVES HOMOGENEITY BROWNFORSYTHE WELCH /PLOT MEANS /MISSING ANALYSIS /POSTHOC=TUKEY ALPHA(0.05).
Resources	Processor Time	00:00:00.45
	Elapsed Time	00:00:00.43

Descriptives

						95% Confidence Interval for Mean			
		N	Mean	Std. Deviation	Std. Error	Lower Bound	Upper Bound	Minimum	Maximum
Idea units	B1	12	70.50	5.436	1.569	67.05	73.95	64	79
	B2	13	79.77	4.885	1.355	76.82	82.72	72	89
	C1	13	86.08	9.269	2.571	80.48	91.68	65	93
	Total	38	79.00	9.253	1.501	75.96	82.04	64	93
LC units	B1	12	75.08	4.481	1.294	72.24	77.93	70	84
	B2	13	89.15	3.211	.890	87.21	91.09	85	95
	C1	13	98.92	11.214	3.110	92.15	105.70	74	109
	Total	38	88.05	12.108	1.964	84.07	92.03	70	109

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Idea units	Based on Mean	1.224	2	35	.306
	Based on Median	.179	2	35	.837
	Based on Median and with adjusted df	.179	2	17.237	.838

	Based on trimmed mean	.672	2	35	.517
LC units	Based on Mean	3.534	2	35	.040
	Based on Median	1.590	2	35	.218
	Based on Median and with adjusted df	1.590	2	14.274	.238
	Based on trimmed mean	2.618	2	35	.087

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Idea units	Between Groups	1525.769	2	762.885	16.259	.000
	Within Groups	1642.231	35	46.921		
	Total	3168.000	37			
LC units	Between Groups	3570.363	2	1785.181	33.709	.000
	Within Groups	1853.532	35	52.958		
	Total	5423.895	37			

Robust Tests of Equality of Means

		Statistic[a]	df1	df2	Sig.
Idea units	Welch	16.386	2	22.297	.000
	Brown-Forsythe	16.507	2	26.378	.000
LC units	Welch	48.566	2	20.610	.000
	Brown-Forsythe	34.580	2	18.029	.000

a. Asymptotically F distributed.

Post Hoc Tests

Multiple Comparisons

Tukey HSD

Dependent Variable	(I) IELTS	(J) IELTS	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
Idea units	B1	B2	-9.269*	2.742	.005	-15.98	-2.56
		C1	-15.577*	2.742	.000	-22.29	-8.87
	B2	B1	9.269*	2.742	.005	2.56	15.98
		C1	-6.308	2.687	.062	-12.88	.27
	C1	B1	15.577*	2.742	.000	8.87	22.29
		B2	6.308	2.687	.062	-.27	12.88
LC units	B1	B2	-14.071*	2.913	.000	-21.20	-6.94
		C1	-23.840*	2.913	.000	-30.97	-16.71
	B2	B1	14.071*	2.913	.000	6.94	21.20
		C1	-9.769*	2.854	.004	-16.75	-2.78
	C1	B1	23.840*	2.913	.000	16.71	30.97
		B2	9.769*	2.854	.004	2.78	16.75

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

Homogeneous Subsets

Idea units

Tukey HSD[a,b]

IELTS	N	Subset for alpha = 0.05 1	2
B1	12	70.50	
B2	13		79.77
C1	13		86.08
Sig.		1.000	.067

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.649.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

LC units

Tukey HSD[a,b]

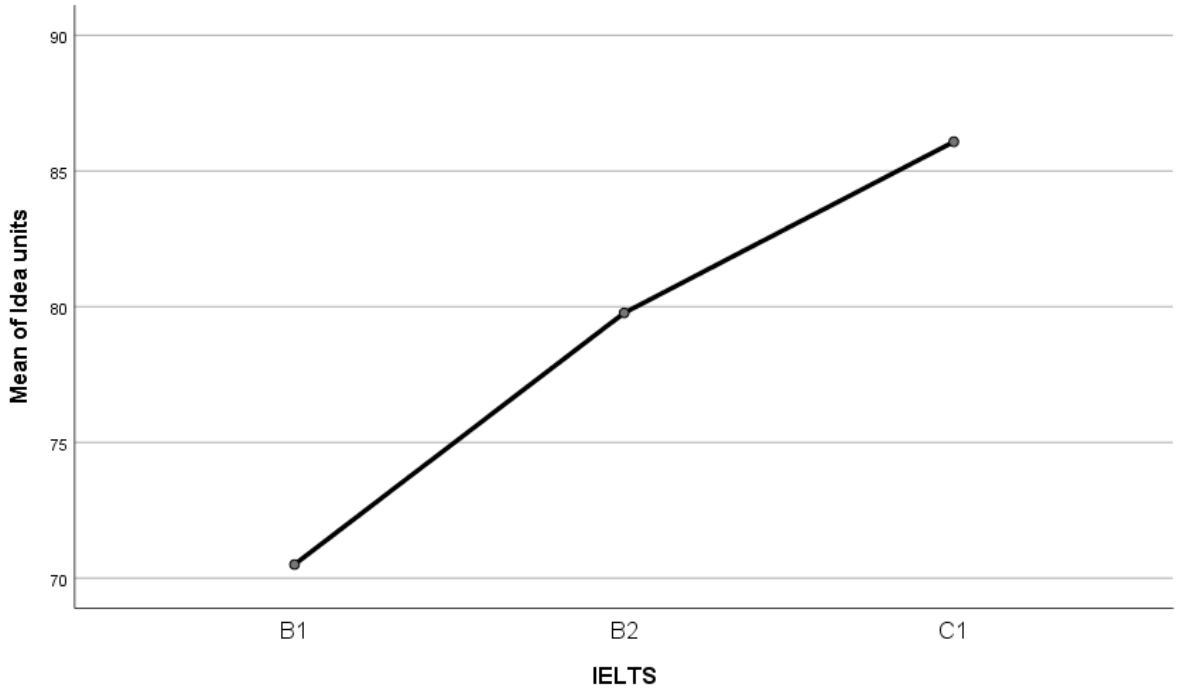
IELTS	N	Subset for alpha = 0.05		
		1	2	3
B1	12	75.08		
B2	13		89.15	
C1	13			98.92
Sig.		1.000	1.000	1.000

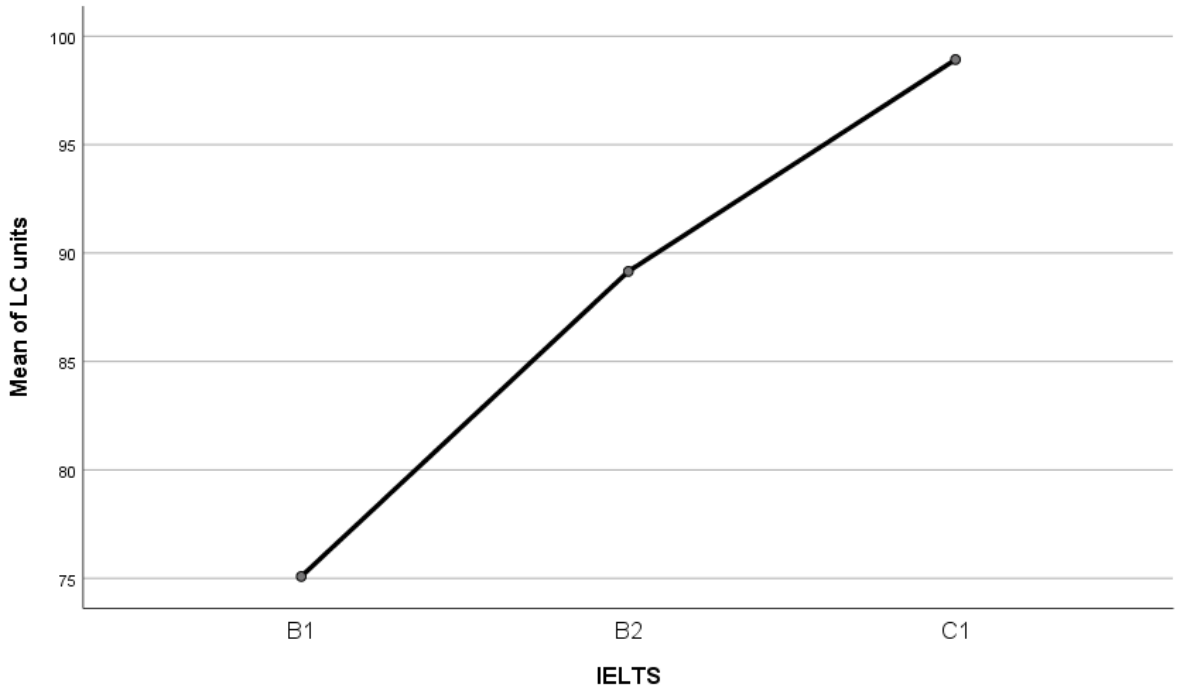
Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.649.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Means Plots




100
95
90
85
80
75
Mean of LC units
B1
B2
C1
IELTS