

Appendix 13

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ONEWAY Fluency Pronunciation Comprehensibility BY Motivation
/STATISTICS DESCRIPTIVES HOMOGENEITY
/PLOT MEANS
/MISSING ANALYSIS

/POSTHOC=SCHEFFE BONFERRONI ALPHA(0.05) .

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Oneway

[DataSet0]

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Fluency	Low	10	63.30	3.020	.955	61.14	65.46	60	71
	Medium	17	67.65	3.372	.818	65.91	69.38	57	71
	High	6	71.17	.753	.307	70.38	71.96	70	72
	Very High	3	73.00	1.732	1.000	68.70	77.30	71	74
	Total	36	67.47	4.212	.702	66.05	68.90	57	74
Pronunciation	Low	10	62.40	2.951	.933	60.29	64.51	59	68
	Medium	17	66.59	2.694	.653	65.20	67.97	59	71
	High	6	70.33	2.422	.989	67.79	72.88	66	73
	Very High	3	73.00	1.000	.577	70.52	75.48	72	74
	Total	36	66.58	4.170	.695	65.17	67.99	59	74
Comprehensibility	Low	10	64.60	3.978	1.258	61.75	67.45	60	72
	Medium	17	68.59	3.465	.840	66.81	70.37	57	73
	High	6	72.17	2.927	1.195	69.10	75.24	67	75

Very High	3	73.00	1.732	1.000	68.70	77.30	72	75
Total	36	68.44	4.398	.733	66.96	69.93	57	75

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Fluency	1.053	3	32	.383
Pronunciation	.707	3	32	.555
Comprehensibility	.710	3	32	.553

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Fluency	Between Groups	348.157	3	116.052	13.612	.000
	Within Groups	272.816	32	8.525		
	Total	620.972	35			
Pronunciation	Between Groups	382.899	3	127.633	18.084	.000
	Within Groups	225.851	32	7.058		
	Total	608.750	35			
Comprehensibility	Between Groups	293.538	3	97.846	8.168	.000
	Within Groups	383.351	32	11.980		
	Total	676.889	35			

Post Hoc Tests

Multiple Comparisons

Dependent Variable		(I) Motivation	(J) Motivation	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
							Lower Bound	Upper Bound
Fluency	Scheffe	Low	Medium	-4.347 [*]	1.164	.008	-7.78	-.91
			High	-7.867 [*]	1.508	.000	-12.31	-3.42
			Very High	-9.700 [*]	1.922	.000	-15.37	-4.03
		Medium	Low	4.347 [*]	1.164	.008	.91	7.78
			High	-3.520	1.387	.114	-7.61	.57
			Very High	-5.353	1.828	.052	-10.75	.04
		High	Low	7.867 [*]	1.508	.000	3.42	12.31
			Medium	3.520	1.387	.114	-.57	7.61
			Very High	-1.833	2.065	.852	-7.92	4.26
		Very High	Low	9.700 [*]	1.922	.000	4.03	15.37
			Medium	5.353	1.828	.052	-.04	10.75
			High	1.833	2.065	.852	-4.26	7.92
	Bonferroni	Low	Medium	-4.347 [*]	1.164	.004	-7.62	-1.07
			High	-7.867 [*]	1.508	.000	-12.11	-3.63
			Very High	-9.700 [*]	1.922	.000	-15.11	-4.29
		Medium	Low	4.347 [*]	1.164	.004	1.07	7.62
			High	-3.520	1.387	.097	-7.42	.38
			Very High	-5.353 [*]	1.828	.037	-10.50	-.21

				High	Low	7.867 [*]	1.508	.000	3.63	12.11
					Medium	3.520	1.387	.097	-.38	7.42
					Very High	-1.833	2.065	1.000	-7.64	3.97
				Very High	Low	9.700 [*]	1.922	.000	4.29	15.11
					Medium	5.353 [*]	1.828	.037	.21	10.50
					High	1.833	2.065	1.000	-3.97	7.64
Pronunciation	Scheffe	Low	Medium	-4.188 [*]	1.059	.005	-7.31	-1.06		
			High	-7.933 [*]	1.372	.000	-11.98	-3.89		
			Very High	-10.600 [*]	1.749	.000	-15.76	-5.44		
		Medium	Low	4.188 [*]	1.059	.005	1.06	7.31		
			High	-3.745 [*]	1.262	.048	-7.47	-.02		
			Very High	-6.412 [*]	1.664	.006	-11.32	-1.50		
		High	Low	7.933 [*]	1.372	.000	3.89	11.98		
			Medium	3.745 [*]	1.262	.048	.02	7.47		
			Very High	-2.667	1.879	.576	-8.21	2.88		
	Bonferroni	Very High	Low	10.600 [*]	1.749	.000	5.44	15.76		
			Medium	6.412 [*]	1.664	.006	1.50	11.32		
			High	2.667	1.879	.576	-2.88	8.21		
		Low	Medium	-4.188 [*]	1.059	.002	-7.17	-1.21		
			High	-7.933 [*]	1.372	.000	-11.79	-4.08		
			Very High	-10.600 [*]	1.749	.000	-15.52	-5.68		
		Medium	Low	4.188 [*]	1.059	.002	1.21	7.17		
			High	-3.745 [*]	1.262	.034	-7.29	-.20		
			Very High	-6.412 [*]	1.664	.003	-11.09	-1.73		
		High	Low	7.933 [*]	1.372	.000	4.08	11.79		

				Medium	3.745*	1.262	.034	.20	7.29	
				Very High	-2.667	1.879	.992	-7.95	2.62	
				Very High	Low	10.600*	1.749	.000	5.68	15.52
					Medium	6.412*	1.664	.003	1.73	11.09
					High	2.667	1.879	.992	-2.62	7.95
Comprehensibility	Scheffe	Low	Medium	-3.988	1.379	.057	-8.06	.08		
			High	-7.567*	1.787	.002	-12.84	-2.29		
			Very High	-8.400*	2.278	.009	-15.12	-1.68		
		Medium	Low	3.988	1.379	.057	-.08	8.06		
			High	-3.578	1.644	.213	-8.43	1.27		
			Very High	-4.412	2.167	.266	-10.81	1.98		
		High	Low	7.567*	1.787	.002	2.29	12.84		
			Medium	3.578	1.644	.213	-1.27	8.43		
			Very High	-.833	2.447	.990	-8.05	6.39		
		Very High	Low	8.400*	2.278	.009	1.68	15.12		
			Medium	4.412	2.167	.266	-1.98	10.81		
			High	.833	2.447	.990	-6.39	8.05		
	Bonferroni	Low	Medium	-3.988*	1.379	.041	-7.87	-.11		
			High	-7.567*	1.787	.001	-12.59	-2.54		
			Very High	-8.400*	2.278	.005	-14.81	-1.99		
		Medium	Low	3.988*	1.379	.041	.11	7.87		
			High	-3.578	1.644	.222	-8.20	1.04		
			Very High	-4.412	2.167	.301	-10.51	1.68		
		High	Low	7.567*	1.787	.001	2.54	12.59		
			Medium	3.578	1.644	.222	-1.04	8.20		
			Very High	-.833	2.447	1.000	-7.72	6.05		

Very High	Low	8.400*	2.278	.005	1.99	14.81
	Medium	4.412	2.167	.301	-1.68	10.51
	High	.833	2.447	1.000	-6.05	7.72

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

Homogeneous Subsets

Fluency

		N	Subset for alpha = 0.05		
			1	2	3
Scheffe ^a	Low	10	63.30		
	Medium	17	67.65	67.65	
	High	6		71.17	71.17
	Very High	3			73.00
	Sig.		.102	.241	.755

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,071.

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Pronunciation

		N	Subset for alpha = 0.05		
			1	2	3
Scheffe ^a	Low	10	62.40		
	Medium	17	66.59	66.59	

High	6		70.33	70.33
Very High	3			73.00
Sig.		.076	.132	.397

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,071.					

Comprehensibility

Motivation	N	Subset for alpha = 0.05	
		1	2
Schef Low	10	64.60	
fe ^a Medium	17	68.59	68.59
High	6		72.17
Very High	3		73.00
Sig.		.278	.199

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,071.





