

Appendices

Appendix 1. The data of students' pre-test and post-test TOEFL score

No.	Pre-Test	Category	Post-Test	Category
1	453	Low Intermediate	530	Advanced
2	387	Elementary	413	Elementary
3	470	Low Intermediate	527	Advanced
4	367	Elementary	437	Low Intermediate
5	513	High Intermediate	550	Advanced
6	370	Elementary	377	Elementary
7	353	Elementary	420	Elementary
8	423	Low Intermediate	490	High Intermediate
9	487	High Intermediate	540	Advanced
10	353	Elementary	430	Low Intermediate
11	383	Elementary	460	Low Intermediate
12	460	Low Intermediate	537	Advanced
13	440	Low Intermediate	497	High Intermediate
14	360	Elementary	397	Elementary
15	440	Low Intermediate	520	High Intermediate
16	430	Low Intermediate	503	High Intermediate
17	437	Low Intermediate	530	Advanced
18	380	Elementary	520	High Intermediate
19	310	Elementary	343	Elementary
20	457	Low Intermediate	487	High Intermediate
21	450	Low Intermediate	503	High Intermediate
22	407	Elementary	490	High Intermediate
23	440	Low Intermediate	473	Low Intermediate
24	440	Low Intermediate	513	High Intermediate
25	360	Elementary	460	Low Intermediate
26	383	Elementary	407	Elementary
27	377	Elementary	483	High Intermediate
28	447	Low Intermediate	510	High Intermediate
29	397	Elementary	450	Low Intermediate
30	327	Elementary	473	Low Intermediate
31	473	Low Intermediate	560	Advanced
32	340	Elementary	393	Elementary
33	487	High Intermediate	560	Advanced
34	390	Elementary	453	Low Intermediate
35	367	Elementary	370	Elementary
36	403	Elementary	510	High Intermediate
37	357	Elementary	417	Elementary

38	350	Elementary	390	Elementary
39	470	Low Intermediate	543	Advanced
40	503	High Intermediate	580	Advanced
41	380	Elementary	400	Elementary
42	397	Elementary	507	High Intermediate
43	393	Elementary	480	Low Intermediate
44	383	Elementary	480	Low Intermediate
45	360	Elementary	427	Low Intermediate
46	470	Low Intermediate	507	High Intermediate
47	343	Elementary	387	Elementary
48	387	Elementary	487	High Intermediate
49	480	Low Intermediate	523	High Intermediate
50	333	Elementary	400	Elementary
51	357	Elementary	477	Low Intermediate
52	407	Elementary	433	Low Intermediate
53	340	Elementary	417	Elementary
54	457	Low Intermediate	520	High Intermediate
55	417	Elementary	500	High Intermediate
56	420	Elementary	520	High Intermediate
57	413	Elementary	470	Low Intermediate
58	370	Elementary	447	Low Intermediate
59	410	Elementary	430	Low Intermediate
60	463	Low Intermediate	527	Advanced
61	413	Elementary	403	Elementary
62	433	Low Intermediate	497	High Intermediate
63	403	Elementary	493	High Intermediate
64	397	Elementary	393	Elementary
65	377	Elementary	510	High Intermediate
66	410	Elementary	503	High Intermediate
67	450	Low Intermediate	490	High Intermediate
68	467	Low Intermediate	530	Advanced
69	430	Low Intermediate	427	Low Intermediate
70	390	Elementary	430	Low Intermediate
71	403	Elementary	470	Low Intermediate
72	417	Elementary	473	Low Intermediate
73	413	Elementary	467	Low Intermediate
74	487	High Intermediate	530	Advanced
75	373	Elementary	447	Low Intermediate
76	447	Low Intermediate	483	High Intermediate
77	377	Elementary	427	Low Intermediate
78	387	Elementary	530	Advanced
79	477	Low Intermediate	510	High Intermediate

80	440	Low Intermediate	530	Advanced
81	467	Low Intermediate	510	High Intermediate
82	423	Low Intermediate	447	Low Intermediate
83	427	Low Intermediate	530	Advanced
84	403	Elementary	430	Low Intermediate
85	417	Elementary	517	High Intermediate
86	430	Low Intermediate	480	Low Intermediate
87	400	Elementary	503	High Intermediate
88	450	Low Intermediate	493	High Intermediate
89	340	Elementary	443	Low Intermediate
90	435	Low Intermediate	540	Advanced
91	397	Elementary	413	Elementary
92	433	Low Intermediate	533	Advanced
93	417	Elementary	427	Low Intermediate
94	510	High Intermediate	513	High Intermediate
95	380	Elementary	473	Low Intermediate
96	363	Elementary	390	Elementary
97	393	Elementary	340	Elementary
98	457	Low Intermediate	503	High Intermediate
99	367	Elementary	433	Low Intermediate
100	583	Advanced	580	Advanced
101	423	Low Intermediate	493	High Intermediate
102	453	Low Intermediate	477	Low Intermediate
103	443	Low Intermediate	480	Low Intermediate
104	393	Elementary	457	Low Intermediate
105	460	Low Intermediate	553	Advanced
106	377	Elementary	453	Low Intermediate
107	413	Elementary	527	Advanced
108	443	Low Intermediate	500	High Intermediate
109	500	High Intermediate	550	Advanced
110	483	High Intermediate	537	Advanced
111	463	Low Intermediate	517	High Intermediate
112	357	Elementary	543	Advanced
113	413	Elementary	450	Low Intermediate
114	357	Elementary	523	High Intermediate
115	400	Elementary	320	Elementary
116	410	Elementary	417	Elementary
117	387	Elementary	430	Low Intermediate
118	433	Low Intermediate	510	High Intermediate
119	423	Low Intermediate	467	Low Intermediate
120	457	Low Intermediate	513	High Intermediate

121	490	High Intermediate	533	Advanced
122	313	Elementary	467	Low Intermediate
123	433	Low Intermediate	530	Advanced
124	430	Low Intermediate	497	High Intermediate
125	443	Low Intermediate	537	Advanced
126	430	Low Intermediate	473	Low Intermediate
127	420	Elementary	530	Advanced
128	387	Elementary	453	Low Intermediate
129	433	Low Intermediate	507	High Intermediate
130	440	Low Intermediate	547	Advanced
131	427	Low Intermediate	483	High Intermediate
132	437	Low Intermediate	517	High Intermediate
133	453	Low Intermediate	480	Low Intermediate
134	533	Advanced	493	High Intermediate
135	540	Advanced	587	Advanced
136	377	Elementary	490	High Intermediate
137	383	Elementary	500	High Intermediate
138	507	High Intermediate	550	Advanced
139	423	Low Intermediate	507	High Intermediate
140	367	Elementary	477	Low Intermediate
141	387	Elementary	470	Low Intermediate
142	423	Low Intermediate	403	Elementary
143	390	Elementary	500	High Intermediate
144	507	High Intermediate	570	Advanced
145	350	Elementary	380	Elementary
146	390	Elementary	457	Low Intermediate
147	433	Low Intermediate	497	High Intermediate
148	413	Elementary	450	Low Intermediate
149	417	Elementary	427	Low Intermediate
150	380	Elementary	507	High Intermediate
151	363	Elementary	513	High Intermediate

Appendix 2. The result of normality test

One-Sample Kolmogorov-Smirnov Test

		PreTest	PostTest
N		151	151
Normal Parameters ^{a, b}	Mean	416.63	479.97
	Std. Deviation	47.690	52.536
Most Extreme Differences	Absolute	.049	.086
	Positive	.049	.048
	Negative	-.028	-.086
Kolmogorov-Smirnov Z		.608	1.053
Asymp. Sig. (2-tailed)		.854	.218

a. Test distribution is Normal.

b. Calculated from data.

Appendix 3. The result of homogeneity test

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
Score	Based on Mean	1.784	1	300	.183
	Based on Median	1.305	1	300	.254
	Based on Median and with adjusted df	1.305	1	294.612	.254
	Based on trimmed mean	1.653	1	300	.200

Appendix 4. The result of paired T-test statistic**Paired Samples Statistics**

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 PreTest	416.63	151	47.690	3.881
PostTest	479.97	151	52.536	4.275

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 PreTest & PostTest	151	.677	.000

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 PreTest - PostTest	-63.338	40.548	3.300	-69.858	-56.818	-19.195	150	.000