

APPENDICES (1)

The English Score Of The Students In The Report Of The Last Semester

No	II-1	II-2	II-3	II-4	II-5	II-6	II-7	II-8
1	9	6	5	6	5	5	5	5
2	7	6	6	7	6	6	4	7
3	8	6	5	5	5	6	6	6
4	9	6	5	6	6	5	6	5
5	9	6	8	7	6	5	6	6
6	6	6	8	5	7	5	6	6
7	8	6	6	6	7	7	6	6
8	9	6	6	7	8	8	7	6
9	9	6	6	5	6	6	6	6
10	7	7	7	5	7	6	6	6
11	7	6	6	7	7	5	6	6
12	7	6	5	7	6	6	6	6
13	8	8	8	6	7	6	6	7
14	8	6	7	6	6	6	6	8
15	8	5	6	6	6	6	6	5
16	8	6	7	6	6	8	6	6
17	7	6	6	6	8	5	6	6
18	7	8	7	6	6	6	6	6
19	8	9	6	7	6	7	7	6
20	7	6	6	6	8	6	6	6
21	8	7	6	7	6	6	5	6
22	6	9	6	6	7	6	6	7
23	8	6	6	6	6	7	7	8
24	7	6	6	6	6	6	6	7
25	7	6	5	7	5	7	6	7
26	9	6	6	5	7	5	7	5
27	8	5	6	7	6	6	6	6
28	9	6	5	8	7	6	6	5
29	8	5	6	7	6	6	7	8
30	8	7	5	6	8	6	8	6
31	7	6	6	6	6	6	5	6
32	6	6	6	6	6	6	7	5
33	7	6	8	7	6	7	7	6
34	7	6	6	6	7	6	6	6
35	6	8	7	6	7	7	6	8
36	8	7	7	6	6	6	7	6
37	8	7	6	8	6	5	8	6
38	6	6	6	6	6	7	6	6
39	8		7	8		6	6	
40	7			6			5	
Total	304	242	235	252	243	237	246	235
Mean	7,6	6,36842	6,02564	6,3	6,39474	6,07692	6,15	5,875
SD	0,92819	0,94214	0,86388	0,79097	0,78978	0,77407	0,76962	0,83359

The Calculation for the English Scores on the Reports

No	CLASS II-2		CLASS II-5	
	(XA)	X ² A	(XB)	X ² B
1	6	36	5	25
2	6	36	6	36
3	6	36	5	25
4	6	36	6	36
5	6	36	6	36
6	6	36	7	49
7	6	36	7	49
8	6	36	8	64
9	6	36	6	36
10	7	49	7	49
11	6	36	7	49
12	6	36	6	36
13	8	64	7	49
14	6	36	6	36
15	5	25	6	36
16	6	36	6	36
17	6	36	8	64
18	8	64	6	36
19	9	81	6	36
20	6	36	8	64
21	7	49	6	36
22	9	81	7	49
23	6	36	6	36
24	6	36	6	36
25	6	36	5	25
26	6	36	7	49
27	5	25	6	36
28	6	36	7	49
29	5	25	6	36
30	7	49	8	64
31	6	36	6	36
32	6	36	6	36
33	6	36	6	36
34	6	36	7	49
35	8	64	7	49
36	7	49	6	36
37	7	49	6	36
38	6	36	6	36
Total	242	1574	243	1577
n	38	---	38	---
Mean	6,36842105	---	6,39473684	---
SD	0,94213824	---	0,78978183	---

TEST OF HYPOTHESES:

1. $H_0 : \mu_A = \mu_B$, there is no significant difference between the mean classes
 $H_a: \mu_A \neq \mu_B$, there is significant difference between the mean classes.

2. t-test, where $df = n_A + n_B - 2 =$
 $t(5\%) = 2,000$

3. Calculation for t observation (to):
A: CLASS II-2

$$\bar{x} = \frac{\sum x}{n} = 6,3684 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 0,9421$$

B: CLASS II-5

$$\bar{x} = \frac{\sum x}{n} = 6,3947 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 0,7898$$

$$t_o = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A - 1)s_A^2 + (n_B - 1)s_B^2}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = -0,132$$

4. Conclusion:

Because t_o is less than t table, thus H_0 is accepted.

So we conclude that at a 5% level there is no significant difference between the classes.

Mean class II-5 is higher than the mean class II-2

The Experiment Results based on the Writing Assignments
Class II-2

No.	Treatment 1				Treatment 2				Treatment 3				Post Test			
	R1	R2	R3	X	R1	R2	R3	X	R1	R2	R3	X	R1	R2	R3	X
1	63	60		61.5	55	54		54.5	66	59		62.5	49	54		51.5
2	80	62	77	73	74	62	72	69	64	60		62	73	80		76.5
3	57	56		56.5	51	56		53.5	50	54		52	59	63		61
4	56	60		58	54	56		55	65	60		62.5	61	64		62.5
5	63	60		61.5	57	52		54.5	62	58		60	65	64		64.5
6	59	60		59.5	57	56		56.5	56	59		57.5	57	65		61
7	68	60		64	65	65		65	70	60		65	65	71		68
8	69	58	70	65.5	63	54		58.5	60	61		60.5	61	68		64.5
9	67	58		62.5	62	58		60	64	62		63	54	66	62	61.5
10	53	48		50.5	52	50		51	54	51		52.5	51	60		55.5
11	65	60		62.5	54	52		53	55	61		58	50	60		55
12	63	60		61.5	67	61		64	64	59		61.5	61	66		63.5
13	63	60		61.5	56	54		55	64	59		61.5	60	63		61.5
14	63	60		61.5	57	52		54.5	64	59		61.5	34	50	34	39
15	62	60		61	51	58		54.5	51	59		55	62	66		64
16	57	58		57.5	54	60		57	50	50		50	62	67		64.5
17	75	65		70	76	74		75	74	71		72.5	76	66		71
18	73	68		70.5	80	63	80	74	76	66		71	67	64		63.5
19	67	60		63.5	59	58		58.5	60	61		60.5	53	62		57.5
20	57	56		56.5	57	46	53	52	52	50		51	54	60		57
21	76	70		73	69	62		65.5	79	70		74.5	74	70		72
22	57	62		59.5	53	52		52.5	48	54		51	53	63		58
23	65	58		61.5	63	60		61.5	67	59		63	65	70		67.5
24	48	44		46	50	46		48	50	50		50	50	58		54
25	59	62		60.5	53	52		52.5	48	54		51	60	60		60
26	65	54	62	60	60	58		59	57	58		57.5	60	65		62.5
27	56	54		55	57	46	55	52.5	64	59		61.5	62	62		62
28	58	54		56	55	56		55.5	49	57		53	50	62	56	56
29	70	60		65	55	58		56.5	57	60		58.5	68	65		66.5
30	49	60		54	62	56		59	62	61		61.5	52	54		53
31	54	52		53	63	59		61	63	58		60.5	60	62		61
32	62	52		57	57	56		56.5	56	61		58.5	57	65		61
33	59	60		60.5	68	54	67	63	66	61		63.5	53	54		53.5
34	82	66	78	75	77	79		78	68	61		64.5	70	67		68.5
35	49	52		50.5	59	60		59.5	66	61		63.5	52	54		53
36	78	50	77	68	80	62	76	72.5	72	61	70	67.5	63	67		60
37	65	63		64	52	52		52	60	61		60.5	46	54		50
38	58	60		59	61	56		58.5	60	61		60.5	55	67	65	62

Notes : R1 = Rater 1
 R2 = Rater 2
 R3 = Rater 3
 X = Mean

The Experiment Results based on the Writing Assignments
Class II-5

No.	Treatment 1				Treatment 2				Treatment 3				Post Test			
	R1	R2	R3	X	R1	R2	R3	X	R1	R2	R3	X	R1	R2	R3	X
1	49	58		53.5	57	61		59	59	61		60	47	56		51.5
2	58	62		60	63	61		62	63	60		61.5	65	63		64
3	58	60		59	66	62		64	65	60		62.5	44	54		49
4	59	52		55.5	61	60		60.5	70	62		66	62	64		63
5	51	60		55.5	59	58		58.5	57	61		59	46	52		49
6	70	62		66	65	63		64	71	58	76	68	61	65		63
7	72	66		69	59	60		59.5	72	62		67	68	68		68
8	58	60		59	57	62		59.5	66	61		63.5	57	63		60
9	50	58		54	59	61		60	62	58		60	58	60		59
10	52	52		52	65	62		63.5	66	62		64	63	69		66
11	44	49		46.5	64	60		62	48	52		50	63	64		63.5
12	50	52		51	59	56		57.5	66	61		63.5	34	56	41	43.5
13	58	62		60	62	60		61	67	61		64	53	50		51.5
14	49	51		50	55	60		57.5	57	61		59	61	65		63
15	61	64		62.5	65	64		64.5	73	62	74	69.5	58	62		60
16	72	73		72.5	67	71		69	60	64		62	70	69		69.5
17	55	57		56	58	62		60	62	61		61.5	65	66		65.5
18	53	58		55.5	59	60		59.5	59	61		60	47	50		48.5
19	73	64		68.5	73	64		68.5	68	58		63	68	68		68
20	59	61		60	62	60		61	71	53	68	64	64	60		62
21	52	60		56	65	60		62.5	57	61		59	54	56		55
22	52	52		52	58	48		53	62	58		60	54	61		57.5
23	64	70		67	74	62	71	69	74	63	69	68.5	65	68		66.5
24	59	60		59.5	55	59		57	68	60		64	60	60		60
25	68	60		64	63	60		61.5	66	61		63.5	63	65		64
26	52	56		54	63	61		62	57	53		55	56	60		58
27	51	58		54.5	54	60		57	49	60	52	53.5	58	60		59
28	52	52		52	67	66		66.5	56	60		58	57	58		57.5
29	52	58		55	53	58		55.5	57	62		59.5	67	63		65
30	55	58		56.5	65	62		63.5	58	61		59.5	55	58		56.5
31	56	58		57	63	61		62	65	62		63.5	54	52		53
32	57	64		60.5	59	59		59	57	61		59	40	66	47	51
33	55	60		57.5	65	60		62.5	57	61		59	53	67	61	60
34	57	63		60	54	58		56	66	61		63.5	57	65		61
35	79	73		76	82	66	80	76	82	65	74	73.5	75	63	74	70.5
36	58	64		61	65	60		62.5	57	61		59	53	68		60.5
37	60	60		60	52	60		56	61	58		59.5	55	56		55.5
38	59	60		59.5	62	62		62	67	61		64	61	60		60.5

Notes :
R1 = Rater 1
R2 = Rater 2
R3 = Rater 3
X = Mean

The Calculation for Two Means First Treatments

No	CLASS II-2		CLASS II-5	
	(XA)	X ² A	(XB)	X ² B
1	61,5	3782,25	53,5	2862,25
2	73	5329	60	3600
3	56,5	3192,25	59	3481
4	58	3364	55,5	3080,25
5	61,5	3782,25	55,5	3080,25
6	59,5	3540,25	66	4356
7	64	4096	69	4761
8	65,5	4290,25	59	3481
9	62,5	3906,25	54	2916
10	50,5	2550,25	52	2704
11	62,5	3906,25	46,5	2162,25
12	61,5	3782,25	51	2601
13	61,5	3782,25	60	3600
14	61,5	3782,25	50	2500
15	61	3721	62,5	3906,25
16	57,5	3306,25	72,5	5256,25
17	70	4900	56	3136
18	70,5	4970,25	55,5	3080,25
19	63,5	4032,25	68,5	4692,25
20	56,5	3192,25	60	3600
21	73	5329	56	3136
22	59,5	3540,25	52	2704
23	61,5	3782,25	67	4489
24	46	2116	59,5	3540,25
25	60,5	3660,25	64	4096
26	60	3600	54	2916
27	55	3025	54,5	2970,25
28	56	3136	52	2704
29	65	4225	55	3025
30	54	2916	56,5	3192,25
31	53	2809	57	3249
32	57	3249	60,5	3660,25
33	59,5	3540,25	57,5	3306,25
34	75	5625	60	3600
35	50,5	2550,25	76	5776
36	68	4624	61	3721
37	64	4096	60	3600
38	59	3481	59,5	3540,25
Total	2315	142512	2228	132081,5
n	38	---	38	---
Mean	60,921053	---	58,63158	---
SD	6,3240492	---	6,260865	---

THE FIRST TREATMENT (CATCHING A THIEF)
TEST OF HYPOTHESES:

1. H_0 : $\mu_A = \mu_B$, there is no significant difference between the mean groups.

H_a : $\mu_A \neq \mu_B$, there is significant difference between the mean groups.

2. t-test, where $df = n_A + n_B - 2 = 74$
 $t(5\%) = 2,000$

3. Calculation for t observation (to):
A: CLASS II-2

$$\bar{x} = \frac{\sum x}{n} = 60,921 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 6,324$$

B: CLASS II-5

$$\bar{x} = \frac{\sum x}{n} = 58,632 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 6,2609$$

$$t_o = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A - 1)s_A^2 + (n_B - 1)s_B^2}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = 1,586$$

4. Conclusion:

Because $t_o < t$ table, so H_0 is accepted.

So we conclude that at a 5% level there is no significant difference between the class which is taught using picture series and list of vocabulary. The mean of class II-2 is higher than of class II-5.

The Calculation for Two Means Second Treatments

No	CLASS II-2		CLASS II-5	
	(XA)	X ² A	(XB)	X ² B
1	54,5	2970,25	59	3481
2	69	4761	62	3844
3	53,5	2862,25	64	4096
4	55	3025	60,5	3660,25
5	54,5	2970,25	58,5	3422,25
6	56,5	3192,25	64	4096
7	65	4225	59,5	3540,25
8	58,5	3422,25	59,5	3540,25
9	60	3600	60	3600
10	51	2601	63,5	4032,25
11	53	2809	62	3844
12	64	4096	57,5	3306,25
13	55	3025	61	3721
14	54,5	2970,25	57,5	3306,25
15	54,5	2970,25	64,5	4160,25
16	57	3249	69	4761
17	75	5625	60	3600
18	74	5476	59,5	3540,25
19	58,5	3422,25	68,5	4692,25
20	52	2704	61	3721
21	65,5	4290,25	62,5	3906,25
22	52,5	2756,25	53	2809
23	61,5	3782,25	69	4761
24	48	2304	57	3249
25	52,5	2756,25	61,5	3782,25
26	59	3481	62	3844
27	52,5	2756,25	57	3249
28	55,5	3080,25	66,5	4422,25
29	56,5	3192,25	55,5	3080,25
30	59	3481	63,5	4032,25
31	61	3721	62	3844
32	56,5	3192,25	59	3481
33	63	3969	62,5	3906,25
34	78	6084	56	3136
35	59,5	3540,25	76	5776
36	72,5	5256,25	62,5	3906,25
37	52	2704	56	3136
38	58,5	3422,25	62	3844
Total	2238,5	133744,75	2334,5	144129,25
n	38	—	38	—
Mean	58,90789474	—	61,43421053	—
SD	7,127085056	—	4,383894129	—

THE SECOND TREATMENT (A GOOD IDEA)
TEST OF HYPOTHESES:

1. H_0 : $\mu_A = \mu_B$, there is no significant difference between the mean groups.

H_a : $\mu_A \neq \mu_B$, there is significant difference between the mean groups.

2. t-test, where $df = n_A + n_B - 2 = 74$
 $t(5\%) = 2,000$

3. Calculation for t observation (t_o):
A: CLASS II-2

$$\bar{x} = \frac{\sum x}{n} = 58,908 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 7,1271$$

B: CLASS II-5

$$\bar{x} = \frac{\sum x}{n} = 61,434 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 4,3839$$

$$t_o = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A - 1)s_A^2 + (n_B - 1)s_B^2}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = -1,86$$

4. Conclusion:

Because $t_o < t$ table thus H_0 is accepted.

So we conclude that at a 5% level there is no significant difference between groups.

the mean score of class II-2 is higher than that of class II-5

The Calculation for Two Means Third Treatments

No	CLASS II-2		CLASS II-5	
	(XA)	X ² A	(XB)	X ² B
1	62,5	3906,25	60	3600
2	62	3844	61,5	3782,25
3	52	2704	62,5	3906,25
4	62,5	3906,25	66	4356
5	60	3600	59	3481
6	57,5	3306,25	68	4624
7	65	4225	67	4489
8	60,5	3660,25	63,5	4032,25
9	63	3969	60	3600
10	52,5	2756,25	64	4096
11	58	3364	50	2500
12	61,5	3782,25	63,5	4032,25
13	61,5	3782,25	64	4096
14	61,5	3782,25	59	3481
15	55	3025	69,5	4830,25
16	50	2500	62	3844
17	72,5	5256,25	61,5	3782,25
18	71	5041	60	3600
19	60,5	3660,25	63	3969
20	51	2601	64	4096
21	74,5	5550,25	59	3481
22	51	2601	60	3600
23	63	3969	68,5	4692,25
24	50	2500	64	4096
25	51	2601	63,5	4032,25
26	57,5	3306,25	55	3025
27	61,5	3782,25	53,5	2862,25
28	53	2809	58	3364
29	58,5	3422,25	59,5	3540,25
30	61,5	3782,25	59,5	3540,25
31	60,5	3660,25	63,5	4032,25
32	58,5	3422,25	59	3481
33	53,5	2862,25	59	3481
34	64,5	4160,25	63,5	4032,25
35	63,5	4032,25	73,5	5402,25
36	67,5	4556,25	59	3481
37	50,5	2550,25	59,5	3540,25
38	60,5	3660,25	64	4096
Total	2260,5	135898,75	2349,5	145976,75
n	38	—	38	—
Mean	59,48684211	—	61,82894737	—
SD	6,214071697	—	4,379430291	—

THE THIRD TREATMENT (A SURPRISE)
TEST OF HYPOTHESES:

1. H_0 : $\mu_A = \mu_B$, there is no significant difference between mean classes.
 H_a : $\mu_A \neq \mu_B$, there is significant difference between the mean classes.

2. t-test, where $df = n_A + n_B - 2 = 74$
 $t(5\%) = 2,000$

3. Calculation for t observation (to) :
A : CLASS II-2

$$\bar{x} = \frac{\sum x}{n} = 59,4868 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 6,21407$$

B : CLASS II-5

$$\bar{x} = \frac{\sum x}{n} = 61,8289 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 4,37943$$

$$t_o = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A - 1)s_A^2 + (n_B - 1)s_B^2}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = -1,8991$$

4. Conclusion:

Because $t_o < t$ table thus H_0 is accepted.

So we conclude that at a 5% level there is no significant difference between the classes.

The mean score of class II-5 is higher than that of class II-2.

The Calculation for Two Means Post-Test

No	CLASS II-2		CLASS II-3	
	(XA)	X²A	(XB)	X²B
1	51,5	2652,25	51,5	2652,25
2	76,5	5852,25	64	4096
3	61	3721	49	2401
4	62,5	3906,25	63	3969
5	64,5	4160,25	49	2401
6	61	3721	63	3969
7	68	4624	68	4624
8	64,5	4160,25	60	3600
9	61,5	3782,25	59	3481
10	55,5	3080,25	66	4356
11	55	3025	63,5	4032,25
12	63,5	4032,25	43,5	1892,25
13	61,5	3782,25	51,5	2652,25
14	56	3136	63	3969
15	64	4096	60	3600
16	64,5	4160,25	69,5	4830,25
17	71	5041	65,5	4290,25
18	63,5	4032,25	48,5	2352,25
19	57,5	3306,25	68	4624
20	57	3249	62	3844
21	72	5184	55	3025
22	58	3364	57,5	3306,25
23	67,5	4556,25	66,5	4422,25
24	54	2916	60	3600
25	60	3600	64	4096
26	62,5	3906,25	58	3364
27	62	3844	59	3481
28	56	3136	57,5	3306,25
29	66,5	4422,25	65	4225
30	53	2809	56,5	3192,25
31	61	3721	53	2809
32	61	3721	51	2601
33	57	3249	60	3600
34	68,5	4692,25	61	3721
35	53	2809	70,5	4970,25
36	56	3136	60,5	3660,25
37	50	2500	55,5	3080,25
38	62	3844	60,5	3660,25
Total	2320	142930	2258,5	135755,75
n	38	—	38	—
Mean	61,05263158	—	59,43421053	—
SD	5,899827613	—	6,417007651	—

THE POST-TEST

TEST OF HYPOTHESES:

1. H_0 : $\mu_A = \mu_B$, there is no significant difference between the mean classes.

H_a : $\mu_A \neq \mu_B$, there is significant difference between the mean classes.

2. t-test, where $df = n_A + n_B - 2 = 74$
 $t(5\%) = 2,000$

3. Calculation for t observation (t_o):

A: CLASS II-2

$$\bar{x} = \frac{\sum x}{n} = 61,053 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 5,8998$$

B: CLASS II-5

$$\bar{x} = \frac{\sum x}{n} = 59,434 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 6,417$$

$$t_o = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A - 1)s_A^2 + (n_B - 1)s_B^2}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = 1,145$$

4. Conclusion:

Because $t_o < t$ table thus H_0 is accepted.

So we conclude that at a 5% level there is no significant difference between classes.

The mean score of class II-2 is higher than that of class II-5

The Calculation for the Content of the First Treatment

No	CLASS II-2		CLASS II-5	
	(XA)	X ² A	(XB)	X ² B
1	20	400	18	324
2	23	529	20	400
3	18,5	342,25	19,5	380,25
4	19,5	380,25	16	256
5	20,5	420,25	19,5	380,25
6	19,5	380,25	22,5	506,25
7	20,5	420,25	22,5	506,25
8	19,5	380,25	20	400
9	21,5	462,25	18,5	342,25
10	16	256	15	225
11	21,5	462,25	14	196
12	20,5	420,25	15	225
13	20,5	420,25	20	400
14	20,5	420,25	18	324
15	19,5	380,25	19,5	380,25
16	18,5	342,25	24,5	600,25
17	23,5	552,25	17,5	306,25
18	23	529	18	324
19	22	484	22,5	506,25
20	19,5	380,25	13	169
21	23	529	19,5	380,25
22	19,5	380,25	15	225
23	21,5	462,25	22	484
24	14,5	210,25	20	400
25	20	400	21,5	462,25
26	20	400	16,5	272,25
27	18	324	18	324
28	19	361	15,5	240,25
29	22	484	18,5	342,25
30	18	324	19,5	380,25
31	15,5	240,25	18,5	342,25
32	18	324	20	400
33	19,5	380,25	19,5	380,25
34	22,5	506,25	19	361
35	15	225	24,5	600,25
36	19	361	19,5	380,25
37	21,5	462,25	20	400
38	20	400	20	400
Total	754	15135,5	720,5	13925,75
n	38	---	38	---
Mean	19,84210526	---	18,96052632	---
SD	2,17201259	---	2,674659814	---

THE CONTENT OF THE FIRST TREATMENT
TEST OF HYPOTHESES:

1. H_0 : $\mu_A = \mu_B$, there is no significant difference between the mean classes.

H_a : $\mu_A \neq \mu_B$, there is significant difference between the mean classes.

2. t-test, where $df = n_A + n_B - 2 = 74$
 $t(5\%) = 2,000$

3. Calculation for t observation (t_o):

A : CLASS II-2

$$\bar{x} = \frac{\sum x}{n} = 19,842 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 2,172$$

B : CLASS II-5

$$\bar{x} = \frac{\sum x}{n} = 18,961 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 2,6747$$

$$t_o = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A - 1)s_A^2 + (n_B - 1)s_B^2}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = 1,577$$

4. Conclusion:

Because $|t_o| < t$ table thus H_0 is accepted.

So we conclude that at a 5% level there is no significant difference between the classes

The mean score of class II-2 is higher than that of class II-5.

The Calculation for the Organization of the First Treatment

No	CLASS II-2		CLASS II-5	
	(XA)	X ² A	(XB)	X ² B
1	12,5	156,25	11	121
2	15,5	240,25	12,5	156,25
3	11,5	132,25	12,5	156,25
4	12,5	156,25	12,5	156,25
5	12,5	156,25	11	121
6	13	169	13,5	182,25
7	13	169	14,5	210,25
8	14,5	210,25	12,5	156,25
9	13	169	11	121
10	11,5	132,25	11,5	132,25
11	12,5	156,25	8,5	72,25
12	12,5	156,25	11	121
13	12,5	156,25	12,5	156,25
14	12,5	156,25	11,5	132,25
15	13	169	14	196
16	12,5	156,25	15,5	240,25
17	14	196	12,5	156,25
18	14,5	210,25	11	121
19	13	169	14,5	210,25
20	11,5	132,25	7,5	56,25
21	15,5	240,25	11,5	132,25
22	12,5	156,25	11,5	132,25
23	11	121	14	196
24	10	100	12,5	156,25
25	12,5	156,25	13	169
26	13	169	12,5	156,25
27	12,5	156,25	11,5	132,25
28	11,5	132,25	11,5	132,25
29	13	169	11,5	132,25
30	12	144	12	144
31	12	144	12,5	156,25
32	11,5	132,25	11,5	132,25
33	12,5	156,25	12	144
34	16	256	11	121
35	11	121	15	225
36	15	225	13,5	182,25
37	13,5	182,25	12,5	156,25
38	12,5	156,25	12,5	156,25
Total	485,5	6265,75	463	5730,5
n	38	---	38	---
Mean	12,77631579	---	12,18421053	---
SD	1,303308516	---	1,552770204	---

THE ORGANIZATION OF THE FIRST TREATMENT
TEST OF HYPOTHESES:

1. H_0 : $\mu_A = \mu_B$, there is no significant difference between the mean classes.

H_a : $\mu_A \neq \mu_B$, there is significant difference between the mean classes.

2. t-test, where $df = n_A + n_B - 2 = 74$
 $t(5\%) = 2,000$

3. Calculation for t observation (to):
A: CLASS II-2

$$\bar{x} = \frac{\sum x}{n} = 12,776 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 1,3033$$

B: CLASS II-5

$$\bar{x} = \frac{\sum x}{n} = 12,184 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 1,5528$$

$$t_o = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A - 1)s_A^2 + (n_B - 1)s_B^2}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = 1,8$$

4. Conclusion:

Because $t_o < t$ table thus H_0 is accepted.

So we conclude that at a 5% level there is no significant difference between the classes.

The mean score of class II-2 is higher than that of class II-5

The Calculation for the Content of the Second Treatment

No	CLASS II-2		CLASS II-5	
	(XA)	X ² A	(XB)	X ² B
1	17	289	19,5	380,25
2	22,5	506,25	21	441
3	18,5	342,25	20,5	420,25
4	19,5	380,25	20,5	420,25
5	15,5	240,25	20	400
6	18	324	21,5	462,25
7	22	484	20,5	420,25
8	17,5	306,25	20,5	420,25
9	19	361	20	400
10	15,5	240,25	21	441
11	15,5	240,25	21	441
12	20,5	420,25	18,5	342,25
13	16,5	272,25	20,5	420,25
14	16,5	272,25	20	400
15	19,5	380,25	21	441
16	19	361	22	484
17	24	576	20,5	420,25
18	22	484	20	400
19	19,5	380,25	24	576
20	16	256	20,5	420,25
21	21	441	21	441
22	15,5	240,25	18	324
23	21	441	23	529
24	15	225	18,5	342,25
25	15,5	240,25	21	441
26	19,5	380,25	21	441
27	15	225	20	400
28	18,5	342,25	22	484
29	19,5	380,25	19	361
30	19,5	380,25	21	441
31	19	361	20,5	420,25
32	19	361	19,5	380,25
33	18,5	342,25	21	441
34	24	576	20	400
35	20	400	25	625
36	23	529	21	441
37	15	225	20	400
38	19,5	380,25	20,5	420,25
Total	712	13586	785	16282,5
n	38	---	38	---
Mean	18,73684211	---	20,65789474	---
SD	2,575185226	---	1,33611611	---

THE CONTENT OF THE SECOND TREATMENT
TEST OF HYPOTHESES:

1. $H_0 : \mu_A = \mu_B$, there is no significant difference between the mean classes.
 $H_a: \mu_A \neq \mu_B$, there is significant difference between the mean classes.

2. t-test, where $df = n_A + n_B - 2 = 74$
 $t(5\%) = 2,000$

3. Calculation for t observation (to):
A: CLASS II-2

$$\bar{x} = \frac{\sum x}{n} = 18,737 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 2,5752$$

B: CLASS II-5

$$\bar{x} = \frac{\sum x}{n} = 20,658 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 1,3361$$

$$t_o = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A - 1)s_A^2 + (n_B - 1)s_B^2}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = -4,082$$

4. Conclusion:
Because $t_o > t$ table thus H_0 is rejected.
So we conclude that at a 5% level there is significant difference between the classes.
The mean score of class II-5 is higher than that of class II-2

The Calculation for the Organization of the Second Treatment

No	CLASS II-2		CLASS II-5	
	(XA)	X ² A	(XB)	X ² B
1	12	144	12,5	156,25
2	16	256	13	169
3	10	100	13,5	182,25
4	10,5	110,25	12,5	156,25
5	11,5	132,25	12,5	156,25
6	11,5	132,25	14	196
7	13	169	12,5	156,25
8	13	169	12	144
9	13	169	12,5	156,25
10	10,5	110,25	14	196
11	11,5	132,25	13	169
12	13	169	12,5	156,25
13	11	121	12,5	156,25
14	10,5	110,25	11	121
15	10	100	13,5	182,25
16	11,5	132,25	15	225
17	14	196	12,5	156,25
18	17	289	12,5	156,25
19	10,5	110,25	13,5	182,25
20	12,5	156,25	12,5	156,25
21	13	169	13	169
22	11,5	132,25	9	81
23	13	169	15	225
24	10	100	11,5	132,25
25	11,5	132,25	13	169
26	12,5	156,25	14	196
27	13,5	182,25	11	121
28	11	121	14	196
29	11	121	11	121
30	10,5	110,25	13	169
31	12	144	12,5	156,25
32	10,5	110,25	10,5	110,25
33	14,5	210,25	13	169
34	16	256	10,5	110,25
35	13	169	17	289
36	14,5	210,25	13	169
37	11,5	132,25	11	121
38	11,5	132,25	13,5	182,25
Total	483,5	5765,75	483	6215,5
n	38	---	38	---
Mean	12,19736842	---	12,71052632	---
SD	1,741929164	---	1,436171614	---

THE ORGANIZATION OF THE SECOND TREATMENT
TEST OF HYPOTHESES:

1. $H_0 : \mu_A = \mu_B$, there is no significant difference between the mean classes.

$H_a: \mu_A \neq \mu_B$, there is significant difference between the mean classes.

2. t-test, where $df = n_A + n_B - 2 = 74$
 $t(5\%) = 2,000$

3. Calculation for t observation (to):
A: CLASS II-2

$$\bar{x} = \frac{\sum x}{n} = 12,197 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 1,7419$$

B: CLASS II-5

$$\bar{x} = \frac{\sum x}{n} = 12,711 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 1,4362$$

$$t_o = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A - 1)s_A^2 + (n_B - 1)s_B^2}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = -1,401$$

4. Conclusion:

Because $t_o < t$ table thus H_0 is accepted.

So we conclude that at a 5% level there is no significant difference between the classes.

The mean score of class II-5 is higher than that of class II-2.

The Calculation for the Content of the Third Treatment

No	CLASS II-2		CLASS II-5	
	(XA)	X ² A	(XB)	X ² B
1	20,5	420,25	19,5	380,25
2	21	441	20	400
3	17	289	20,5	420,25
4	21,5	462,25	21,5	462,25
5	20,5	420,25	19,5	380,25
6	19,5	380,25	22	484
7	21,5	462,25	22	484
8	20	400	20,5	420,25
9	20,5	420,25	20	400
10	15,5	240,25	22	484
11	20	400	16	256
12	21	441	20,5	420,25
13	21	441	20,5	420,25
14	21	441	19,5	380,25
15	21	441	22	484
16	19	361	20,5	420,25
17	21,5	462,25	20	400
18	22	484	20	400
19	20	400	21	441
20	15,5	240,25	18	324
21	23	529	19,5	380,25
22	17	289	20	400
23	21	441	23	529
24	15	225	20,5	420,25
25	17	289	20	400
26	19,5	380,25	16,5	272,25
27	21	441	17,5	306,25
28	19	361	19,5	380,25
29	19,5	380,25	20	400
30	20	400	19,5	380,25
31	20	400	20,5	420,25
32	19,5	380,25	19,5	380,25
33	20,5	420,25	19,5	380,25
34	21,5	462,25	20	400
35	20	400	25	625
36	21,5	462,25	19,5	380,25
37	20	400	20,5	420,25
38	20	400	21	441
Total	754,5	15107,75	767	15577
n	38	---	38	---
Mean	19,85526316	---	20,18421053	---
SD	1,852346557	---	1,608344174	---

THE CONTENT OF THE THIRD TREATMENT
TEST OF HYPOTHESES:

1. H_0 : $\mu_A = \mu_B$, there is no significant difference between the mean classes.

H_a : $\mu_A \neq \mu_B$, there is significant difference between the mean classes.

2. t-test, where $df = n_A + n_B - 2 = 74$
 $t(5\%) = 2,000$

3. Calculation for t observation (to):
A: CLASS II-2

$$\bar{x} = \frac{\sum x}{n} = 19,855 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 1,8523$$

B: CLASS II-5

$$\bar{x} = \frac{\sum x}{n} = 20,184 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 1,6083$$

$$t_o = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A - 1)s_A^2 + (n_B - 1)s_B^2}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = -0,827$$

4. Conclusion:

Because $t_o < t$ table thus H_0 is accepted.

So we conclude that at a 5% level there is no significant difference between the classes.

the mean score of class II-5 is higher than that of class II-2.

The Calculation for the Organization of the Third Treatment

No	CLASS II-2		CLASS II-5	
	(XA)	X²A	(XB)	X²B
1	12	144	12,5	156,25
2	12	144	13	169
3	10,5	110,25	13	169
4	13	169	13,5	182,25
5	12	144	12,5	156,25
6	11,5	132,25	14	196
7	14	196	13,5	182,25
8	13	169	13	169
9	13	169	12	144
10	11	121	14	196
11	11,5	132,25	9,5	90,25
12	12	144	13,5	182,25
13	12	144	14	196
14	12	144	12,5	156,25
15	12	144	15	225
16	10	100	13	169
17	15	225	13	169
18	14,5	210,25	12,5	156,25
19	13	169	12	144
20	13	169	12,5	156,25
21	14,5	210,25	12,5	156,25
22	10	100	12	144
23	12	144	14,5	210,25
24	10	100	12,5	156,25
25	10	100	13	169
26	11,5	132,25	11,5	132,25
27	12	144	11,5	132,25
28	10	100	12,5	156,25
29	12,5	156,25	12,5	156,25
30	13	169	12,5	156,25
31	12,5	156,25	14	196
32	12,5	156,25	12,5	156,25
33	12	144	12,5	156,25
34	13	169	13,5	182,25
35	14,5	210,25	16	256
36	15	225	12,5	156,25
37	12,5	156,25	12	144
38	12,5	156,25	13,5	182,25
Total	467	5809	490	6362,5
n	38	---	38	---
Mean	12,28947368	---	12,89473684	---
SD	1,373649602	---	1,091477394	---

THE ORGANIZATION OF THE THIRD TREATMENT
TEST OF HYPOTHESES:

1. $H_0 : \mu_A = \mu_B$, there is no significant difference between the mean classes.

$H_a : \mu_A \neq \mu_B$, there is significant difference between the mean classes.

2. t-test, where $df = n_A + n_B - 2 = 74$
 $t(5\%) = 2,000$

3. Calculation for t observation (t_o):
A: CLASS II-2

$$\bar{x} = \frac{\sum x}{n} = 12,289 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 1,3736$$

B: CLASS II-5

$$\bar{x} = \frac{\sum x}{n} = 12,895 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 1,0915$$

$$t_o = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A - 1)s_A^2 + (n_B - 1)s_B^2}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = -2,127$$

4. Conclusion:

Because $t_o > t$ table thus H_0 is rejected.

So we conclude that at a 5% level there is significant difference between the classes..

The mean score of class II-5 is higher than that of class II-2

The Calculation for the Content of the Post-Test

No	CLASS II-2		CLASS II-5	
	(XA)	X ² A	(XB)	X ² B
1	16	256	16	256
2	25,5	650,25	20	400
3	21	441	16	256
4	22	484	20	400
5	23,5	552,25	13,5	182,25
6	22	484	22,5	506,25
7	24,5	600,25	23,5	552,25
8	22,5	506,25	21	441
9	21	441	19,5	380,25
10	19	361	20	400
11	19,5	380,25	22,5	506,25
12	22,5	506,25	16,5	272,25
13	21,5	462,25	15,5	240,25
14	13	169	22	484
15	20	400	14	196
16	22,5	506,25	25	625
17	24	576	22,5	506,25
18	21,5	462,25	14,5	210,25
19	20	400	23,5	552,25
20	19,5	380,25	20	400
21	24	576	16	256
22	20,5	420,25	20,5	420,25
23	24,5	600,25	23,5	552,25
24	18,5	342,25	23	529
25	20	400	23	529
26	22,5	506,25	17	289
27	22	484	19,5	380,25
28	19	361	18,5	342,25
29	24	576	20	400
30	16,5	272,25	19,5	380,25
31	20	400	14	196
32	22	484	18	324
33	16,5	272,25	20,5	420,25
34	24	576	21	441
35	16,5	272,25	23,5	552,25
36	23	529	20,5	420,25
37	16	256	18,5	342,25
38	21,5	462,25	20	400
Total	792	16808,5	744,5	14940,75
n	38	---	38	---
Mean	20,84210526	---	19,59210526	---
SD	2,854832941	---	3,095016184	---

THE CONTENT OF THE POST-TEST
TEST OF HYPOTHESES:

1. H_0 : $\mu_A = \mu_B$, there is no significant difference between the mean classes.

H_a : $\mu_A \neq \mu_B$, there is significant difference between the mean classes.

2. t-test, where $df = n_A + n_B - 2 = 74$
 $t(5\%) = 2,000$

3. Calculation for t observation (to):
A: CLASS II-2

$$\bar{x} = \frac{\sum x}{n} = 20,842 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 2,8548$$

B: CLASS II-5

$$\bar{x} = \frac{\sum x}{n} = 19,592 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 3,095$$

$$t_o = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A - 1)s_A^2 + (n_B - 1)s_B^2}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = 1,83$$

4. Conclusion:

Because $t_o < t$ table thus H_0 is accepted.

So we conclude that at a 5% level there is no significant difference between the classes.

The mean score of class II-2 is higher than that of class II-5.

The Calculation for the Organization of the Post-Test

No	CLASS II-2		CLASS II-5	
	(XA)	X ² A	(XB)	X ² B
1	11	121	11	121
2	16,5	272,25	13	169
3	12,5	156,25	9	81
4	13	169	12	144
5	12,5	156,25	11	121
6	12,5	156,25	12,5	156,25
7	14,5	210,25	14,5	210,25
8	13,5	182,25	12,5	156,25
9	15,5	240,25	12,5	156,25
10	11	121	14	196
11	11	121	13	169
12	13	169	9	81
13	12,5	156,25	10,5	110,25
14	8	64	14	196
15	13	169	11	121
16	13,5	182,25	14	196
17	14,5	210,25	13,5	182,25
18	13,5	182,25	8,5	72,25
19	12	144	14	196
20	12	144	12,5	156,25
21	14,5	210,25	12,5	156,25
22	11,5	132,25	10,5	110,25
23	13,5	182,25	13,5	182,25
24	11	121	13	169
25	13	169	13	169
26	12,5	156,25	15	225
27	12,5	156,25	12,5	156,25
28	12	144	12,5	156,25
29	13	169	14	196
30	11	121	11	121
31	12,5	156,25	12	144
32	12,5	156,25	9	81
33	11,5	132,25	13	169
34	13	169	12,5	156,25
35	11,5	132,25	14	196
36	12,5	156,25	13	169
37	10,5	110,25	11	121
38	14	196	12,5	156,25
Total	478	6096,5	466,5	5824,75
n	38	---	38	---
Mean	12,57894737	---	12,27631579	---
SD	1,504615942	---	1,626210021	---

THE ORGANIZATION OF THE POST-TEST
TEST OF HYPOTHESES:

1. H_0 : $\mu_A = \mu_B$, there is no significant difference between the mean classes.

H_a : $\mu_A \neq \mu_B$, there is significant difference between the mean classes.

2. t-test, where $df = n_A + n_B - 2 = 74$
 $t(5\%) = 2,000$

3. Calculation for t observation (t_o):
A : CLASS II-2

$$\bar{x} = \frac{\sum x}{n} = 12,579 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 1,5046$$

B : CLASS II-5

$$\bar{x} = \frac{\sum x}{n} = 12,276 \quad n = 38$$

$$s = \sqrt{\frac{n(x^2 - (\sum x)^2)}{n(n-1)}} = 1,6262$$

$$t_o = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A - 1)s_A^2 + (n_B - 1)s_B^2}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = 0,842$$

4. Conclusion:

Because $t_o < t$ table thus H_0 is accepted.

So we conclude that at a 5% level there is no significant difference between the classes.

The mean score of class II-2 is higher than that of class II-5.

ESL COMPOSITION PROFILE

STUDENT: _____

DATE: _____

TOPIC: _____

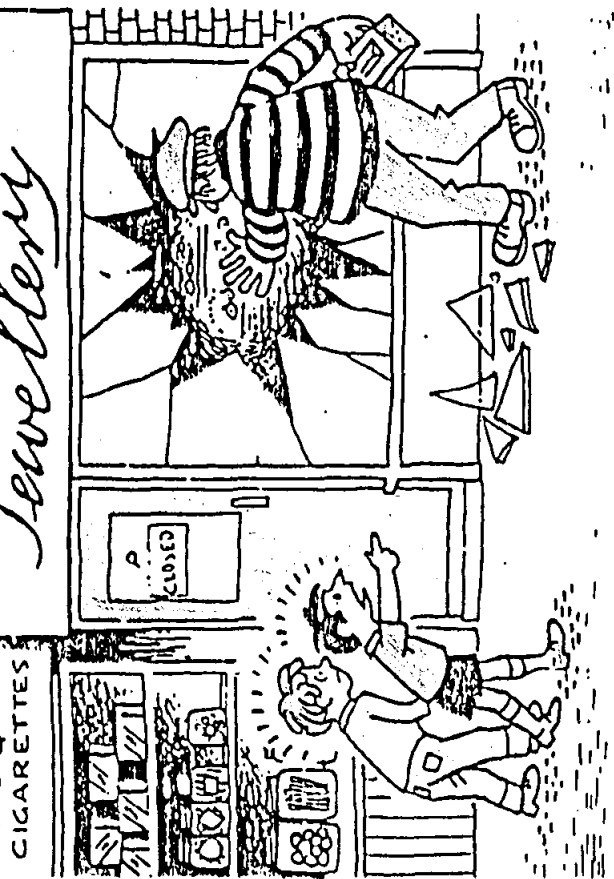
	SCORE	LEVEL	CRITERIA
CONTENT		30-27	EXCELLENT TO VERY GOOD: knowledgeable • substantive • thorough • development of thesis • relevant to assigned topic
		26-22	GOOD TO AVERAGE: some knowledge of subject • adequate range • limited development of thesis • mostly relevant to topic, but lacks detail
		21-17	FAIR TO POOR: limited knowledge of subject • little substance • inadequate development of topic
		16-13	VERY POOR: does not show knowledge of subject • non-substantive • not pertinent • OR not enough to evaluate
ORGANIZATION		20-18	EXCELLENT TO VERY GOOD: fluent expression • ideas clearly stated/supported • succinct • well-organized • logical sequencing • cohesive
		17-14	GOOD TO AVERAGE: somewhat choppy • loosely organized but main ideas stand out • limited support • logical but incomplete sequencing
		13-10	FAIR TO POOR: non-fluent • ideas confused or disconnected • lacks logical sequencing and development
		9-7	VERY POOR: does not communicate • no organization • OR not enough to evaluate
VOCABULARY		20-18	EXCELLENT TO VERY GOOD: sophisticated range • effective word/idiom choice and usage • word form mastery • appropriate register
		17-14	GOOD TO AVERAGE: adequate range • occasional errors of word/idiom form, choice, usage but meaning not obscured
		13-10	FAIR TO POOR: limited range • frequent errors of word/idiom form, choice, usage • meaning confused or obscured
		9-7	VERY POOR: essentially translation • little knowledge of English vocabulary, idioms, word form • OR not enough to evaluate
LANGUAGE USE		25-22	EXCELLENT TO VERY GOOD: effective complex construction • few errors of agreement, tense, number, word order/function, articles, pronouns, prepositions.
		21-18	GOOD TO AVERAGE: effective but simple construction • minor problems in complex construction • several errors of agreement, tense, number, word order/function, articles, pronouns, prepositions, but meaning seldom obscured
		17-11	FAIR TO POOR: major problems in simple/complex construction • frequent errors of negation; agreement, tense, number, word order/function, articles, pronouns, prepositions and/or fragments, run-ons, deletions • meaning confused or obscured
		10-5	VERY POOR: virtually no mastery of sentence construction rules • dominated by errors • does not communicate • OR not enough to evaluate
MECHANICS		5	EXCELLENT TO VERY GOOD: demonstrates mastery of conventions • few errors of spelling, punctuation, capitalization, paragraphing
		4	GOOD TO AVERAGE: occasional errors of spelling, punctuation, capitalization, paragraphing but meaning not obscured
		3	FAIR TO POOR: frequent errors of spelling, punctuation, capitalization, paragraphing • poor handwriting • meaning confused or obscured
		2	VERY POOR: no mastery of conventions • dominated by errors of spelling, capitalization, punctuation, paragraphing • handwriting illegible • OR not enough to evaluate

TOTAL SCORE

READER

COMMENTS

APPENDICES (2)



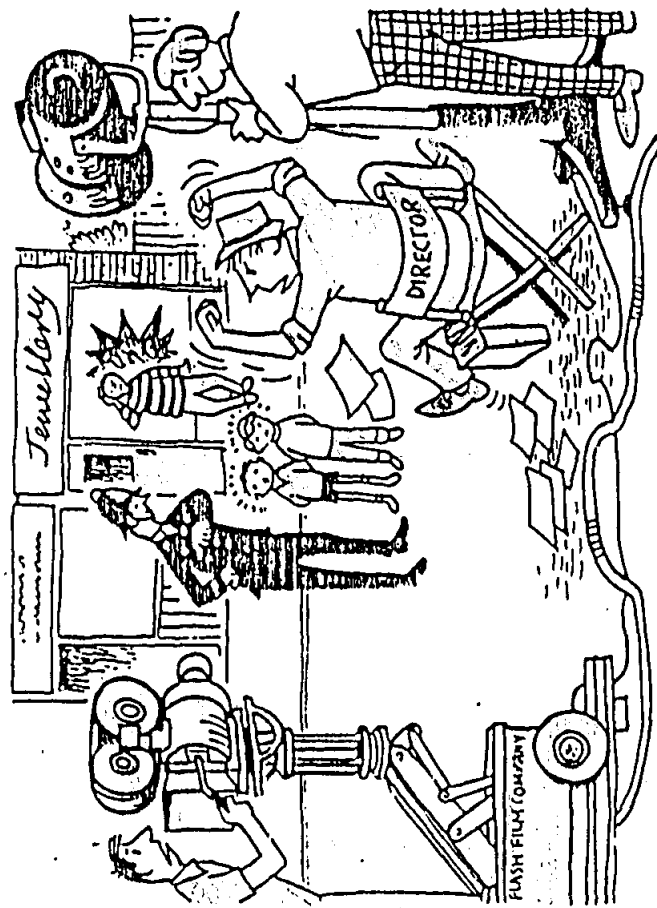
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2



3



4

The Written Questions for the First Treatment (Catching a Thief)

CLASS II-2

Questions:

1. Where were Bill and Joe in Picture 1?
2. What did they hear?
3. What did they see?
4. What did the man do in Picture 2?
5. Why did the boys chase him?
6. What happened in Picture 3?
7. What did the people in this picture do?
8. Why didn't the policeman in Picture 4 help the boys?
9. What did he do?
10. Why was the man in the chair very angry?

The List of Vocabulary and Headings for the First Treatment (Catching a Thief)

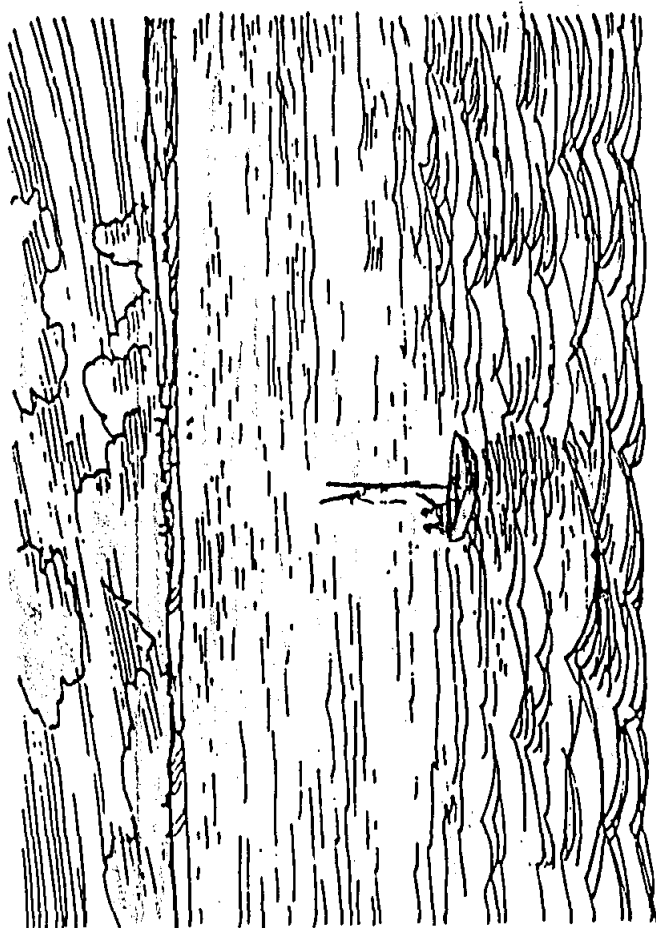
CLASS II-5

Vocabularies:

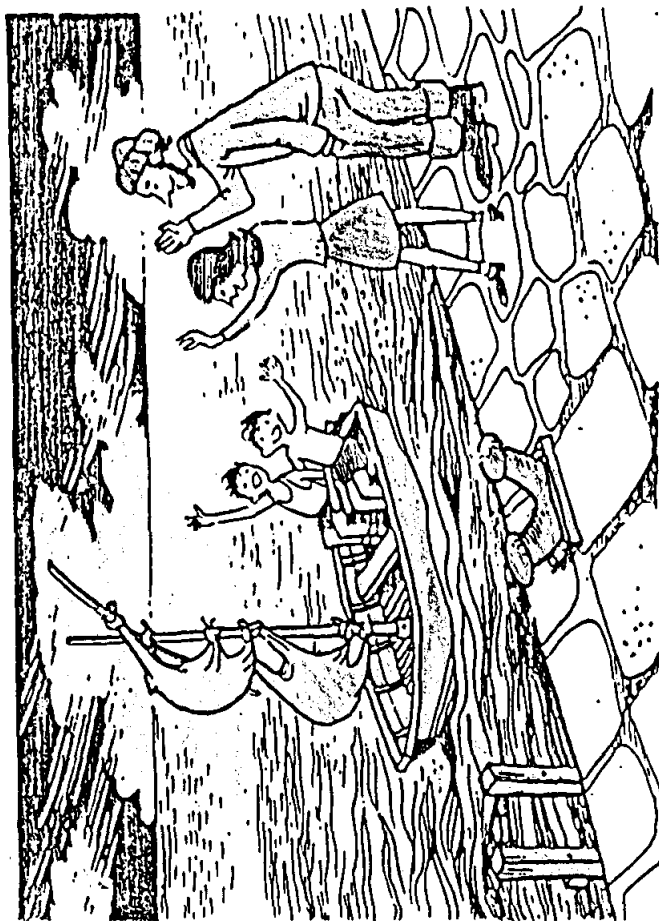
Shop window, watch, thief, film, camera, steal, break, mistake, surprised, brave, chase, catch, hit, angry, laugh, approach, (to)spoil

Headings:

1. Bill and Joe saw a thief stealing some wristwatches.
2. They chased the thief.
3. They caught and hit the thief.
4. It was a film making.



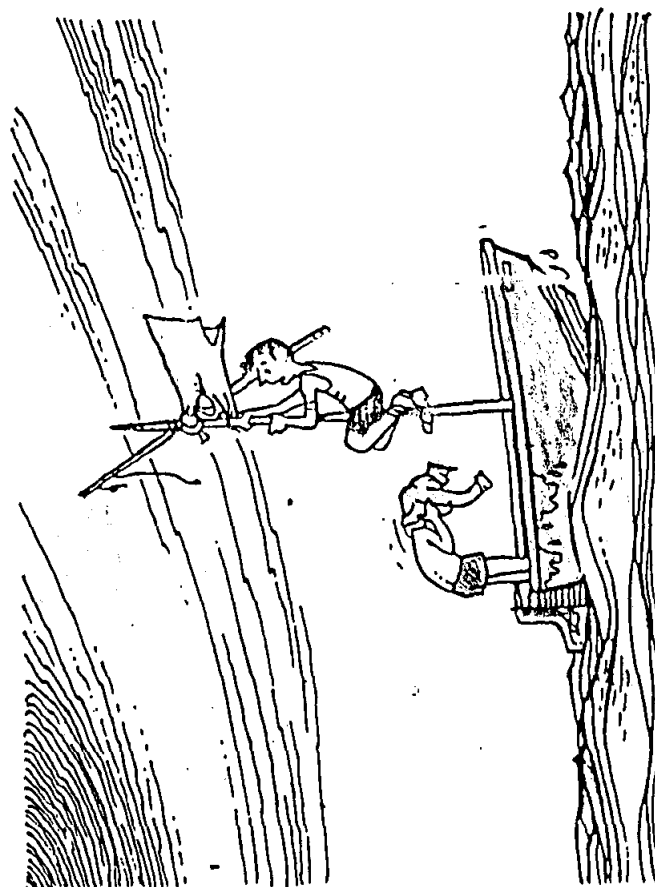
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4



1



3

The Written Questions for the Second Treatment (A Good Idea)

CLASS II-2

Questions:

1. What's the weather like in Picture 1?
2. What has the wind done to the sails of the boat?
3. Who is in the boat?
4. What's happened to the storm in Picture 2?
5. Where's the boat?
6. Why can't the boys reach the shore?
7. What has one of the boys done in Picture 3?
8. What's the other boy doing?
9. What's happening in Picture 4?
10. How has the boat reached the shore?

The List of Vocabulary and Headings for the Second Treatment (A Good Idea)

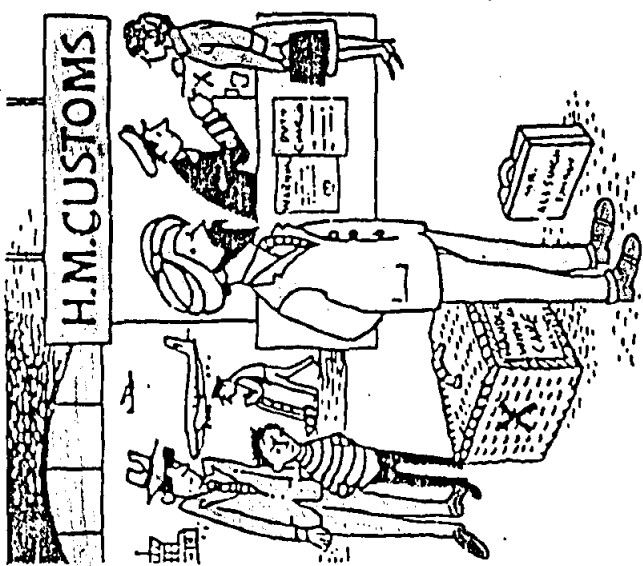
CLASS II-5

Vocabularies:

Boys, boat, middle, sea, (to)sail, wind, weather, shore, idea, shirt, storm, blow, frightened, tear, wave, bad, still, take off, (to) tie, reach, raining, strong

Headings:

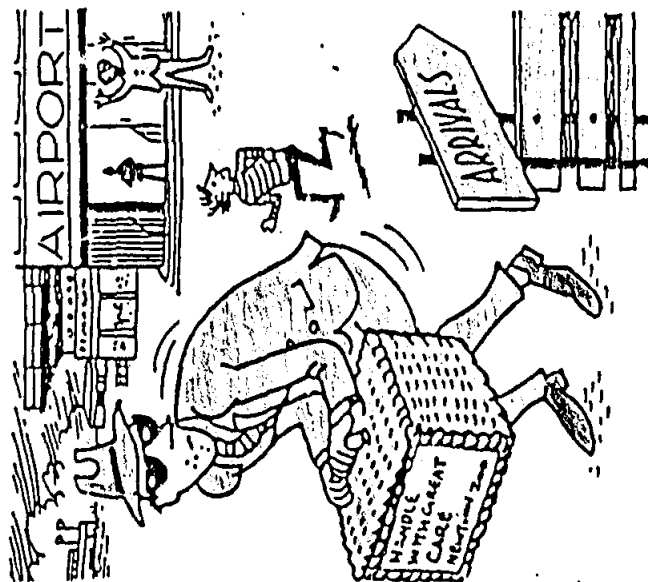
1. Two boys were sailing in the middle of the sea.
2. The storm and wind tore their sails apart.
3. They took off their shirts and used them as sails.
4. They arrived at the shore safely.



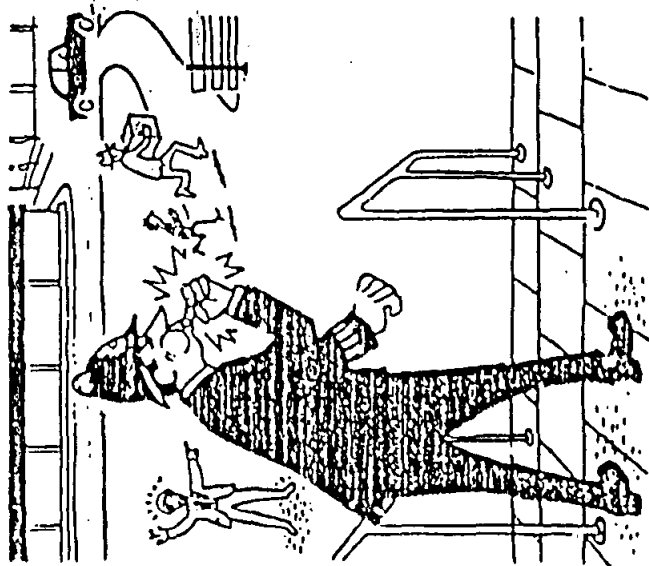
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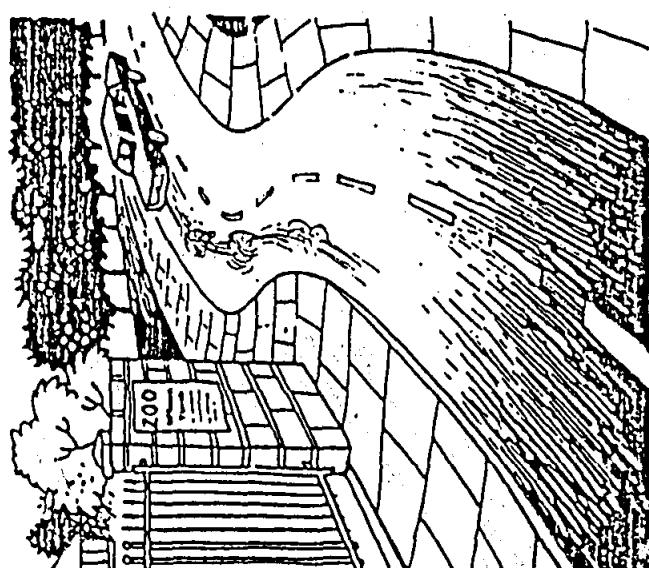
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3



4



5



6

The Written Questions for the Third Treatment (A Surprise)

CLASS II-2

Questions:

1. Where was the Indian in Picture 1?
2. Who was watching him?
3. Who spoke to the Indian in Picture 2
4. What did the man with dark glasses do?
5. What did the man and the boy do in Picture 3?
6. What did the policeman do in Picture 4?
7. What did the man and the boy go in this picture?
8. What did the man and the boy pass in this picture?
9. Where were the man and the boy in Picture 6?
10. Why were they surprised and frightened?

The List of Vocabulary and Headings for the Third Treatments (A Surprise)

CLASS II-5

Vocabularies:

Airport, Indian, basket, dark glasses, talk, a boy, policeman, whistle, steal, run, shout, blow (a whistle), quickly, carefully, arrived, forest, snake ,big, appear.

Headings:

1. An Indian with a big basket arrived at an airport.
2. A boy came and talked to him while another man with dark glasses stole his basket.
3. The boy and the man ran away and the Indian shouted for help
4. The man and the boy ran to their car.
5. The car passed a zoo.
6. They came to the forest and opened the basket and to their surprise, a snake appeared.

