

Table of Summative Test Calculation

Table of Summative Test Calculation

CLASS			
Number	X.1	X.5	X.6
1	65	40	80
2	85	40	85
3	70	80	85
4	65	95	50
5	85	95	60
6	75	55	80
7	45	75	65
8	70	45	100
9	55	90	50
10	80	95	90
11	100	90	85
12	100	75	45
13	45	75	65
14	60	45	100
15	70	80	75
16	100	100	90
17	50	50	55
18	100	50	95
19	40	75	45
20	70	100	55
21	95	70	75
22	95	85	95
23	50	80	60
24	75	50	90
25	90	100	70
26	55	65	100
27	45	65	65
28	80	60	40
29	70	85	70
30	40	60	95
Total	2125	2170	2215
Mean	70,83	72,33	73,83
sd	6	19,29	16.51

to between class X.1, X.5 and X.6**to between class X.6 and X.5**

$$\begin{aligned}
\text{to} &= \frac{XA - XB}{\sqrt{\frac{(nA-1)SA^2 + (nB-1)SB^2}{nA + nB - 2} \left[\frac{1}{nA} + \frac{1}{nB} \right]}} \\
&= \frac{73,83 - 72,33}{\sqrt{\frac{(30-1)16,51^2 + (30-1)19,29^2}{30 + 30 - 2} \left[\frac{1}{30} + \frac{1}{30} \right]}} \\
&= \frac{1,5}{\sqrt{\frac{(29)272,73 + (29)371,95}{58} \left[\frac{2}{30} \right]}} \\
&= \frac{1,5}{\sqrt{\frac{7909,17 + 10786,55}{58} \left[\frac{2}{30} \right]}} \\
&= \frac{1,5}{\sqrt{18695,72[0,06]}} \\
&= \frac{1,5}{105,89}
\end{aligned}$$

$$\text{to} = 0,0141$$

$$\text{t-table (df = 58)} = 1,671$$

$$\text{Result} = \text{insignificant}$$

to between class X.1, X.5 and X.6

to between class X.6 and X.1

$$\begin{aligned}
 \text{to} &= \frac{XA - XB}{\sqrt{\frac{(nA-1)SA^2 + (nB-1)SB^2}{nA + nB - 2} \left[\frac{1}{nA} + \frac{1}{nB} \right]}} \\
 &= \frac{73,83 - 70,83}{\sqrt{\frac{(30-1)16,51^2 + (30-1)6^2}{30 + 30 - 2} \left[\frac{1}{30} + \frac{1}{30} \right]}} \\
 &= \frac{3}{\sqrt{\frac{(29)272,73 + (29)36}{58} \left[\frac{2}{30} \right]}} \\
 &= \frac{3}{\sqrt{\frac{7909,17 + 1044}{58} \left[\frac{2}{30} \right]}} \\
 &= \frac{3}{\sqrt{8953,17[0,06]}} \\
 &= \frac{3}{23,18}
 \end{aligned}$$

$$\text{to} = 0,129$$

$$\text{t-table (df = 58)} = 1,671$$

$$\text{Result} = \text{insignificant}$$

to between class X.1, X.5 and X.6**to between class X.5 and X.1**

$$\begin{aligned}
\text{to} &= \frac{XA - XB}{\sqrt{\frac{(nA-1)SA^2 + (nB-1)SB^2}{nA + nB - 2} \left[\frac{1}{nA} + \frac{1}{nB} \right]}} \\
&= \frac{72,33 - 70,83}{\sqrt{\frac{(30-1)19,29^2 + (30-1)6^2}{30 + 30 - 2} \left[\frac{1}{30} + \frac{1}{30} \right]}} \\
&= \frac{1,5}{\sqrt{\frac{(29)371,95 + (29)36}{58} \left[\frac{2}{30} \right]}} \\
&= \frac{1,5}{\sqrt{\frac{10786,55 + 1044}{58} \left[\frac{2}{30} \right]}} \\
&= \frac{1,5}{\sqrt{11830,55[0,06]}} \\
&= \frac{1,5}{26,64}
\end{aligned}$$

$$\text{to} = 0,0563$$

$$\text{t-table (df = 58)} = 1,671$$

$$\text{Result} = \text{insignificant}$$

APPENDIX III
Table of Pilot Group

Students	Essay																				Multiple Choice										Total
	Number of Questions																				Number of Questions										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10	
1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	1	24	
2	1	0	1	0	1	1	1	0	0	1	0	1	0	0	1	1	1	0	1	0	1	1	0	1	0	1	1	0	0	1	17
3	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	25	
4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	27	
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	1	1	1	1	1	27	
6	1	1	0	1	1	0	1	0	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	23	
7	1	0	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	0	1	0	0	1	0	1	1	23	
8	1	1	1	0	1	0	0	1	0	0	1	1	0	0	1	1	1	0	0	1	1	1	0	1	0	0	0	0	0	15	
9	1	0	1	1	1	0	1	0	0	1	0	0	0	1	1	1	1	0	1	0	1	1	1	0	0	1	1	0	1	18	
10	1	0	1	1	1	0	1	1	0	1	1	1	0	0	1	1	1	1	0	0	1	1	1	0	1	0	0	1	1	20	
11	0	1	1	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	0	1	13	
12	1	1	1	0	1	1	1	0	0	1	1	1	1	0	0	0	1	0	1	1	1	1	1	0	1	0	1	1	1	21	
13	0	1	1	1	1	1	0	0	0	0	1	1	0	1	1	1	1	1	0	1	1	0	0	1	1	1	0	0	1	19	
14	1	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	1	1	1	1	0	1	1	0	0	0	1	1	1	15	
15	0	0	1	1	1	0	1	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	1	0	0	1	0	0	1	15	
16	1	0	1	1	0	0	1	1	1	1	1	1	0	0	1	1	1	0	0	1	1	0	1	0	1	1	0	0	1	18	
17	0	0	1	1	0	0	0	0	0	0	1	1	0	1	0	1	0	0	1	0	1	1	0	1	1	0	0	1	1	14	
18	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	1	1	0	1	1	1	0	0	1	0	0	0	0	0	13	
19	1	1	1	0	0	0	1	0	0	1	1	1	0	0	1	0	0	0	0	0	0	1	1	0	1	1	1	1	1	16	
20	0	0	0	0	1	0	0	0	0	1	0	0	0	1	1	1	1	0	1	0	1	1	0	1	0	1	0	1	1	13	
21	0	1	0	1	0	0	1	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	11	
22	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	7	
23	1	0	1	0	1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	10	
24	0	0	0	1	0	1	0	0	0	1	1	1	0	1	0	0	1	0	1	0	1	0	0	1	1	0	1	1	0	14	
25	1	0	1	1	0	1	1	1	0	1	1	1	1	0	0	1	1	0	1	1	1	1	0	1	0	0	0	0	0	18	

APPENDIX III
Table of Pilot Group

Students	Essay																				Multiple Choice										Total	
	Number of Questions																				Number of Questions											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10		
4	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1		1	1	1	1	1	1	1	0	1	1	27
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0		1	1	1	1	1	1	1	1	1	1	27
3	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	1	1	1		1	1	1	1	0	1	1	1	0	1	25
1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	0	1		1	1	1	1	1	1	0	1	1	1	24
6	1	1	0	1	1	0	1	0	1	1	1	1	0	0	1	1	1	0	1	1		1	1	1	1	1	1	1	0	1	1	23
7	1	0	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1		0	1	1	1	0	0	1	0	1	1	23
12	1	1	1	0	1	1	1	0	0	1	1	1	1	0	0	0	1	0	1	1		1	1	1	1	0	1	0	1	1	1	21
10	1	0	1	1	1	0	1	1	0	1	1	1	0	0	1	1	1	1	0	0		1	1	1	0	1	1	0	0	1	1	20
13	0	1	1	1	1	1	0	0	0	0	1	1	0	1	1	1	1	1	0	1		1	0	0	1	1	1	1	0	0	1	19
9	1	0	1	1	1	0	1	0	0	1	0	0	0	1	1	1	1	0	1	0		1	1	1	0	0	1	1	0	1	1	18
16	1	0	1	1	0	0	1	1	1	1	1	1	0	0	1	1	1	0	0	1		0	1	0	1	0	1	1	0	0	1	18
25	1	0	1	1	0	1	1	1	0	1	1	1	1	0	0	1	1	0	1	1		1	1	0	1	0	1	0	0	0	0	18
2	1	0	1	0	1	1	1	0	0	1	0	1	0	0	1	1	1	0	1	0		1	0	1	0	1	1	1	0	0	1	17
19	1	1	1	0	0	0	1	0	0	1	1	1	0	0	1	0	0	0	0	0		1	1	0	1	1	0	1	1	1	1	16
8	1	1	1	0	1	0	0	1	0	0	1	1	0	0	1	1	1	0	0	1		1	1	1	0	1	0	0	0	0	0	15
14	1	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	1	1	1	0		1	1	1	0	0	0	1	1	1	1	15
15	0	0	1	1	1	0	1	0	0	0	0	0	0	1	1	1	1	1	1	0		1	1	1	0	0	1	0	0	1	0	15
17	0	0	1	1	0	0	0	0	0	0	1	1	0	1	0	1	0	0	1	0		1	1	0	1	1	1	0	0	1	1	14
24	0	0	0	1	0	1	0	0	0	1	1	1	0	1	0	0	1	0	1	0		0	1	0	1	1	1	0	1	1	0	14
11	0	1	1	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0		1	1	1	0	0	0	1	0	1	1	13
18	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	1	1	0	1	1		1	0	1	1	0	0	1	0	0	0	13
20	0	0	0	0	1	0	0	0	0	1	0	0	0	1	1	1	1	0	1	0		0	1	0	1	1	0	1	0	1	1	13
21	0	1	0	1	0	0	1	0	1	1	1	0	0	1	0	0	0	0	0	0		0	1	0	1	0	1	0	0	1	0	11
23	1	0	1	0	1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	1		0	0	1	1	0	0	0	0	0	0	10
22	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		1	1	1	0	0	1	0	0	0	0	7

APPENDIX III
Table of Pilot Group

Mean : $436 : 25 = 17,44$

Sd : $\sqrt{\frac{n \cdot \sum x^2 - (\sum x)^2}{n(n-1)}}$

: $\sqrt{\frac{25.8231 - 190096}{25.24}}$

: $\sqrt{\frac{205775 - 190096}{600}}$

: $\sqrt{26,13}$

: 5,11

KR21 : $1 - \frac{M(K - M)}{K(s^2)}$

: $1 - \frac{17,44(25 - 17,44)}{25(5,11^2)}$

: $1 - 0,21$

: 0,79

APPENDIX III
Table of Pilot Group

Table of Item Difficulty and Item Discrimination

Number	Difficulty Level		Discrimination Power	
1	0,68	Moderate	0,43	Good
2	0,48	Moderate	0,43	Good
3	0,84	Easy	0,29	Satisfactory
4	0,64	Moderate	0,43	Good
5	0,68	Moderate	0,57	Good
6	0,40	Moderate	0,71	Excellent
7	0,64	Moderate	0,71	Excellent
8	0,24	Difficult	0,29	Satisfactory
9	0,28	Difficult	0,29	Satisfactory
10	0,76	Easy	0,29	Satisfactory
11	0,64	Moderate	0,43	Good
12	0,76	Easy	0,43	Satisfactory
13	0,28	Difficult	0,29	Good
14	0,48	Moderate	0,29	Satisfactory
15	0,64	Moderate	0,43	Satisfactory
16	0,68	Moderate	0,29	Good
17	0,76	Easy	0,57	Satisfactory
18	0,28	Difficult	0,43	Good
19	0,60	Moderate	0,43	Good
20	0,48	Moderate	0,57	Good
21	0,76	Easy	0,43	Good
22	0,84	Easy	0,29	Satisfactory
23	0,68	Moderate	0,43	Good
24	0,68	Moderate	0,29	Satisfactory
25	0,52	Moderate	0,29	Satisfactory
26	0,68	Moderate	0,43	Good
27	0,56	Moderate	0,29	Satisfactory
28	0,28	Difficult	0,43	Good
29	0,64	Moderate	0,29	Satisfactory
30	0,68	Moderate	0,71	Excellent

APPENDIX IV
Table Posttest Control Group

Students	Essay																				Multiple Choice										Total	
	Number of Questions																				Number of Questions											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10		
1	0	0	0	1	1	0	0	0	0	0	1	1	0	0	1	0	1	0	0	1	1	1	1	0	1	0	0	0	1	13		
2	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	26	
3	1	1	1	1	1	0	1	0	1	1	1	1	0	0	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	24	
4	1	1	1	0	1	0	1	0	1	1	1	0	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	24	
5	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	0	0	1	1	1	1	1	0	1	1	1	1	1	25	
6	1	1	1	1	1	0	1	0	0	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	23	
7	1	1	1	1	1	0	1	0	0	1	0	0	0	1	1	1	1	0	1	0	1	1	1	1	0	0	1	1	0	1	1	19
8	1	0	1	0	1	0	1	0	0	0	1	0	0	0	1	0	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	18
9	1	1	1	1	1	0	1	0	1	1	1	1	0	1	0	0	1	0	1	1	1	1	1	1	0	0	1	1	0	1	1	21
10	1	0	1	0	0	1	1	0	0	1	1	1	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	0	1	0	1	19
11	0	0	1	0	1	1	1	1	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	20
12	1	0	1	0	1	0	1	1	1	0	1	0	0	0	1	1	1	0	1	0	1	1	1	1	0	1	1	0	1	1	0	18
13	1	1	1	1	1	0	0	0	0	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	0	0	0	0	0	1	0	18
14	1	1	1	1	1	1	1	0	0	1	1	0	1	0	1	0	1	0	1	0	1	1	1	1	1	0	0	0	0	1	1	19
15	1	0	0	0	1	1	0	0	1	1	1	1	0	1	1	1	1	0	1	0	1	1	1	1	0	0	1	1	0	1	0	17
16	1	1	1	0	1	0	1	0	1	0	0	1	0	1	0	0	0	0	0	1	0	1	1	1	1	0	1	0	1	1	1	18
17	1	0	1	1	1	1	1	0	0	1	0	1	1	1	1	1	1	0	0	1	1	1	0	0	0	1	1	0	1	1	1	20
18	1	1	1	1	0	0	1	1	0	1	0	1	0	1	1	1	0	0	1	0	1	1	1	1	0	0	1	0	1	1	1	19
19	1	1	1	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	1	1	1	0	1	0	1	1	1	16
20	1	1	1	1	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	1	0	0	1	0	0	1	0	18
21	0	1	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	1	1	0	1	1	1	1	0	0	1	12	
22	0	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	1	0	1	1	0	1	1	0	1	1	1	14
23	0	1	0	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0	1	1	0	1	1	1	0	0	0	0	1	11
24	0	0	1	1	1	1	0	1	0	0	1	0	0	0	0	1	0	0	1	0	1	1	1	1	0	0	1	0	0	0	1	12
25	1	0	0	1	1	0	0	0	0	0	1	0	0	0	1	1	1	0	1	1	0	0	1	0	0	1	0	0	1	0	1	12

APPENDIX IV
Table Posttest Control Group

Students	Essay																				Multiple Choice										Total	
	Number of Questions																				Number of Questions											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10		
2	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	26	
5	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	0	0	1	1	1	1	1	0	1	1	1	1	1	25	
3	1	1	1	1	1	0	1	0	1	1	1	1	0	0	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	24	
4	1	1	1	0	1	0	1	0	1	1	1	0	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	24	
6	1	1	1	1	1	0	1	0	0	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	23	
9	1	1	1	1	1	0	1	0	1	1	1	1	0	1	0	0	1	0	1	1	1	1	1	1	0	0	1	1	0	1	1	21
11	0	0	1	0	1	1	1	1	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	20
17	1	0	1	1	1	1	1	0	0	1	0	1	1	1	1	1	1	0	0	1	1	1	0	0	0	1	1	0	1	1	1	20
7	1	1	1	1	1	0	1	0	0	1	0	0	0	1	1	1	1	0	1	0	1	1	1	0	0	1	1	0	1	1	1	19
10	1	0	1	0	0	1	1	0	0	1	1	1	0	0	0	1	0	1	1	1	1	1	1	1	1	1	0	1	0	1	0	19
14	1	1	1	1	1	1	1	0	0	1	1	0	1	0	1	0	1	0	1	0	1	1	1	1	0	0	0	0	1	1	1	19
18	1	1	1	1	0	0	1	1	0	1	0	1	0	1	1	1	0	0	1	0	1	1	1	0	0	1	0	1	1	1	1	19
8	1	0	1	0	1	0	1	0	0	0	1	0	0	0	1	0	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	18
12	1	0	1	0	1	0	1	1	1	0	1	0	0	0	1	1	1	0	1	0	1	1	1	0	1	1	0	1	1	0	1	18
13	1	1	1	1	1	0	0	0	0	1	1	1	0	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0	1	0	0	18
16	1	1	1	0	1	0	1	0	1	0	0	1	0	1	0	0	0	0	0	1	0	1	1	1	0	1	0	1	1	1	1	18
20	1	1	1	1	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	1	0	0	1	0	0	1	0	18
15	1	0	0	0	1	1	0	0	1	1	1	1	0	1	1	1	1	0	1	0	0	1	1	0	0	1	1	0	1	0	0	17
19	1	1	1	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	1	1	0	1	0	1	1	1	1	16
22	0	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	1	0	1	1	0	1	1	0	1	1	1	14
1	0	0	0	1	1	0	0	0	0	0	1	1	0	0	1	0	1	0	0	1	1	1	1	0	1	0	0	0	1	0	1	13
21	0	1	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	0	1	1	0	1	1	1	1	1	0	0	0	0	12
24	0	0	1	1	1	1	0	1	0	0	1	0	0	0	0	1	0	0	1	0	1	1	1	0	0	0	1	0	0	0	0	12
25	1	0	0	1	1	0	0	0	0	0	1	0	0	0	1	1	1	0	1	1	0	0	1	0	0	1	0	0	1	0	0	12
23	0	1	0	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	1	1	0	1	1	1	1	0	0	0	0	0	11

APPENDIX IV
Table Posttest Control Group

Mean : $456 : 25 = 18,2$

$$\text{Sd} : \sqrt{\frac{n \cdot \sum x^2 - (\sum x)^2}{n(n-1)}}$$

$$: \sqrt{\frac{25.8750 - 207936}{25.24}}$$

$$: \sqrt{\frac{218750 - 207936}{600}}$$

$$: \sqrt{\frac{10814}{600}}$$

$$: \sqrt{18}$$

$$: 4,24$$

APPENDIX V
Table Posttest Experimental Group

Students	Essay																				Multiple Choice										Total	
	Number of Questions																				Number of Questions											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10		
1	1	1	1	1	1	0	1	0	0	1	1	0	0	0	1	1	1	0	1	0		1	1	1	1	1	1	1	1	1	22	
2	1	1	1	1	1	0	1	0	0	1	1	1	1	0	1	0	1	1	1	1		1	1	1	1	1	1	0	0	1	1	23
3	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	1	1		1	1	1	1	0	1	1	0	1	1	25
4	0	0	1	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1		1	1	1	0	0	1	1	1	1	1	23
5	1	0	1	1	1	0	1	1	0	1	1	1	0	0	1	1	1	1	1	1		1	1	1	1	0	1	1	0	1	1	23
6	1	1	1	0	1	0	1	0	1	1	1	0	1	0	1	1	1	1	1	0		1	1	1	1	1	1	1	1	1	1	24
7	1	0	0	1	1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	1		1	1	1	0	0	1	1	0	1	1	21
8	1	0	0	1	1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	1		1	1	1	0	0	1	1	0	1	1	21
9	1	1	1	1	0	0	1	1	0	1	0	1	0	1	1	1	0	0	1	0		1	1	1	0	0	1	0	1	1	1	19
10	1	0	1	1	1	0	1	0	0	1	1	1	1	0	0	0	0	1	1	0		1	1	1	0	0	1	1	0	1	0	17
11	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1		1	0	1	1	1	1	1	0	1	1	25
12	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1		1	1	0	1	1	1	1	0	1	1	25
13	1	0	1	1	0	1	1	0	1	1	0	1	0	1	1	1	1	1	1	1		1	1	1	0	0	1	0	1	1	1	22
14	1	0	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	0	1		1	1	1	1	0	1	1	1	1	1	24
15	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1		1	1	1	1	0	1	1	1	1	1	26
16	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	0	1	1	1	27
17	1	0	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1		1	1	1	0	1	1	0	0	1	0	20
18	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	28
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	0	1	1	1	1	1	29
20	1	0	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	1	0		1	1	1	0	1	1	1	0	1	1	23
21	1	0	1	1	1	1	1	0	0	0	0	1	0	1	0	1	1	1	1	1		1	1	1	1	0	1	1	0	1	1	21
22	1	1	1	1	0	0	1	1	0	1	0	1	0	1	1	1	0	0	1	0		1	1	1	0	0	1	0	1	1	1	19
23	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	1	1		1	1	1	1	0	1	1	0	1	1	25
24	1	1	1	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0		1	1	1	0	0	1	0	1	1	1	15
25	0	0	1	1	1	1	1	0	0	1	0	0	1	0	1	1	1	0	0	0		0	1	0	1	1	1	1	0	1	1	17

APPENDIX V
Table Posttest Experimental Group

Students	Essay																				Multiple Choice										Total	
	Number of Questions																				Number of Questions											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10		
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	0	1	1	1	1	1	29
18	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	28
16	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	0	1	1	1	27
15	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1		1	1	1	1	0	1	1	1	1	1	26
3	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	1	1		1	1	1	1	0	1	1	0	1	1	25
11	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1		1	0	1	1	1	1	0	1	1	1	25
12	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1		1	1	0	1	1	1	0	1	1	1	25
23	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	1	1		1	1	1	1	0	1	1	0	1	1	25
6	1	1	1	0	1	0	1	0	1	1	1	0	1	0	1	1	1	1	1	0		1	1	1	1	1	1	1	1	1	1	24
14	1	0	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	0	1		1	1	1	1	0	1	1	1	1	1	24
2	1	1	1	1	1	0	1	0	0	1	1	1	1	0	1	0	1	1	1	1		1	1	1	1	1	1	0	0	1	1	23
4	0	0	1	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1		1	1	1	0	0	1	1	1	1	1	23
5	1	0	1	1	1	0	1	1	0	1	1	1	0	0	1	1	1	1	1	1		1	1	1	1	0	1	1	0	1	1	23
20	1	0	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	1	0		1	1	1	0	1	1	1	0	1	1	23
1	1	1	1	1	1	0	1	0	0	1	1	0	0	0	1	1	1	0	1	0		1	1	1	1	1	1	1	1	1	1	22
13	1	0	1	1	0	1	1	0	1	1	0	1	0	1	1	1	1	1	1	1		1	1	1	0	0	1	0	1	1	1	22
7	1	0	0	1	1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	1		1	1	1	0	0	1	1	0	1	1	21
8	1	0	0	1	1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	1		1	1	1	0	0	1	1	0	1	1	21
21	1	0	1	1	1	1	1	0	0	0	0	1	0	1	0	1	1	1	1	1		1	1	1	1	0	1	1	0	1	1	21
17	1	0	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1		1	1	1	0	1	1	0	0	1	0	20
9	1	1	1	1	0	0	1	1	0	1	0	1	0	1	1	1	0	0	1	0		1	1	1	0	0	1	0	1	1	1	19
22	1	1	1	1	0	0	1	1	0	1	0	1	0	1	1	1	0	0	1	0		1	1	1	0	0	1	0	1	1	1	19
10	1	0	1	1	1	0	1	0	0	1	1	1	1	0	0	0	0	1	1	0		1	1	1	0	0	1	1	0	1	0	17
25	0	0	1	1	1	1	1	0	0	1	0	0	1	0	1	1	1	0	0	0		0	1	0	1	1	1	0	1	1	1	17
24	1	1	1	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0		1	1	1	0	0	1	0	1	1	1	15

Table Posttest Experimental Group

Mean : $564 : 25 = 22,7$

Sd : $\sqrt{\frac{n \cdot \sum x^2 - (\sum x)^2}{n(n-1)}}$

: $\sqrt{\frac{25 \cdot 13014 - 318096}{25 \cdot 24}}$

: $\sqrt{\frac{325350 - 318096}{600}}$

: $\sqrt{\frac{7254}{600}}$

: $\sqrt{12,1}$

: 3,48

to Posttest:

$$\begin{aligned}
 \text{to} &= \frac{XA - XB}{\sqrt{\frac{(nA-1)SA^2 + (nB-1)SB^2}{nA + nB - 2} \left[\frac{1}{nA} + \frac{1}{nB} \right]}} \\
 &= \frac{22,7 - 18,2}{\sqrt{\frac{(25-1)3,48^2 + (25-1)4,24^2}{25 + 25 - 2} \left[\frac{1}{25} + \frac{1}{25} \right]}} \\
 &= \frac{4,5}{\sqrt{\frac{(24)12,1 + (24)18}{48} \left[\frac{2}{25} \right]}} \\
 &= \frac{4,5}{\sqrt{\frac{290,4 + 450}{48} \left[\frac{2}{25} \right]}} \\
 &= \frac{4,5}{\sqrt{15,43[0,08]}} \\
 &= \frac{4,5}{1,1}
 \end{aligned}$$

to = 4,09

APPENDIX VII

Problem Sheet of Pretest and Posttest

Change the form of verbs in the parentheses into *Present Tense* or *Present*

Progressive Tense!

1. Don't be noisy. Charles' baby (sleep). He always (sleep) for ten hours every night.
2. [At Ciputra Water Park] I usually (enjoy) swimming but I (not enjoy) this one very much because the water is too cold.
3. James is a taxi driver. He (drive) a taxi.
He (not/drive) a taxi now because today is holiday.
4. Catherine can't come to the phone because she (wash) her hair. She (wash) it every other day and so.
5. I usually (play) the piano well. However, at this moment I (play) it very bad because I hurt my fingers.
6. Jill : "(What/you/think) about Monetary Crisis in Indonesia?"
Jack : "....."
Jill : "Jack???"
Jack : "Yeah, wait a second. I (think)."
7. My cousins (live) in London. Now, they are in Paris to have a vacation.
But, they cannot find a hotel. So, they (live) with their friends until they find a hotel.
8. My uncle is a chef. He (cook) very well.
Hmm..... What a nice smell! I am very sure that he (cook) a yummy fried rice.
9. Julia is very good at English. She (speak) English very well.
Listen! She (speak) English with that foreigner?
10. Bill : "Hi, Rob. (What/you/do)?"
Rob : "Planning something for tonight."
Bill : "(What/you/do) actually?"
Rob : "I am a robber."

APPENDIX VII

Problem Sheet of Pretest and Posttest

Choose the best answer by crossing the letter 1, b, c, or d to complete the following conversations!

Frank : “ZZZZZZ.....ZZZZZZ!!!”

Charlie : “Hey, wake up, Frank! You **(1)**?”

Frank : “.....ZZZZZZ.....!!”

Charlie : “Come on, Frank! The teacher **(2)**you!”

Teacher : “HEY!!!!”

Frank : “...umm...yum-yum...”

Teacher : “What you **(3)**? You always **(4)** here?”

Frank : “Oh, of course not, sir. I **(5)** here. I always **(6)**here but
with my eyes closed.”

Teacher : “.....?????”

- | | |
|---|--|
| 1. a. Aren't you sleeping?
b. Do you sleep?
c. Are you sleeping?
d. Don't you sleep? | 4. a. Aren't you sleeping?
b. Are you always sleeping?
c. Do you always sleep?
d. Don't you always sleep? |
| 2. a. The teacher is looking at.
b. The teacher looks at.
c. The teacher are looking at.
d. The teacher look at. | 5. a. I not sleeping.
b. I don't not sleep.
c. I don't sleep.
d. I'm not sleeping. |
| 3. a. What you doing?
b. What do you do?
c. What you do?
d. What are you doing? | 6. a. I always sitting.
b. I always sit.
c. I'm always sitting.
d. I always sits. |

APPENDIX VII

Problem Sheet of Pretest and Posttest

Mr. Alex is a good teacher. He (7)English. His classes (8)at 9 o'clock. It is 9.05 so he (9)English. We always (10)his lesson carefully.

7. a. are teaching.
b. is teaching.
c. teaches.
d. teach.
8. a. begins
b. are beginning.
c. is beginning.
d. begin

9. a. is teaching
b. teaches
c. are teaching
d. teach
10. a. are listening
b. listens
c. listen
d. is listening