CHAPTER IV
RESULT OF THE STUDY

This chapter discusses the data which had been collected from the research in the field of study. The data were the result of experiment and control class, the result of post-test experiment and control class, and the result of data analysis.

A. Description of the Data

1. The result of Pre-Test score of the Experiment Groups and Control Group

The Pre-Test was conducted to the first experiment group (Self-Correct) in XI IPS 3 room on august 11th, 2014, at 07.45-09.15 am., and followed by second experiment group (Self-Repair) in XI IPS 2 room at 10.15-11.45 am. Then the control group was given Pre-Test in XI IPS 1 room on august 12th, 2014, at 10.15-11.45 am. The Pre-test scores of the groups were presented in Table 4.1.

Table 4.1. Students' Final Score of Pre Test

No	Experiment Group (Self Correct) XI IPS 3		Experiment Group (Self Repair) XI IPS 2		Control Group XI IPS1	
	Subject	**Score**	**Subject**	**Score**	**Suject**	**Score**
1	**SC1**	55.56	**SR1**	58.33	**C1**	61.11
2	**SC2**	55.56	**SR2**	50.00	**C2**	55.56
3	**SC3**	52.78	**SR3**	50.00	**C3**	58.33
4	**SC4**	58.33	**SR4**	58.33	**C4**	61.11
5	**SC5**	55.56	**SR5**	55.56	**C5**	61.11
6	**SC6**	55.56	**SR6**	52.78	**C6**	61.11
7	**SC7**	47.22	**SR7**	50.00	**C7**	58.33

8	**SC8**	47.22	**SR8**	52.78	**C8**	55.56
9	**SC9**	61.11	**SR9**	50.00	**C9**	55.56
10	**SC10**	61.11	**SR10**	52.78	**C10**	52.78
11	**SC11**	55.56	**SR11**	58.33	**C11**	52.78
12	**SC12**	52.78	**SR12**	55.56	**C12**	63.89
13	**SC13**	52.78	**SR13**	55.56	**C13**	55.56
14	**SC14**	66,67	**SR14**	58.33	**C14**	58.33
15	**SC15**	52.78	**SR15**	55.56	**C15**	66.67
16	**SC16**	69.44	**SR16**	55.56	**C16**	52.78
17	**SC17**	55.56	**SR17**	55.56	**C17**	58.33
18	**SC18**	55.56	**SR18**	55.56	**C18**	55.56
19	**SC19**	63.89	**SR19**	55.56	**C19**	55.56
20	**SC20**	50.00	**SR20**	50.00	**C20**	55.56
21	**SC21**	63.89	**SR21**	61.11	**C21**	58.33
22	**SC22**	52.78	**SR22**	55.56	**C22**	58.33
23	**SC23**	55.56	**SR23**	58.33	**C23**	61.11
24	**SC24**	55.56	**SR24**	55.56	**C24**	55.56
25	**SC25**	61.11	**SR25**	63.89	**C25**	50.00
26	**SC26**	69.44	**SR26**	66.67	**C26**	63.89
27	**SC27**	50.00	**SR27**	52.78	**C27**	55.56
28	**SC28**	58.33	**SR28**	61.11	**C28**	55.56
29	**SC29**	55.56	**SR29**	52.78	**C29**	52.78
30	**SC30**	58.33	**SR30**	52.78	-	-
Sum		**1705.56**	-	**16667.67**	-	**16667.67**
Lowest score		**47.22**	-	**50.00**	-	**50.00**
Highest score		**69.44**	-	**66.67**	-	**66.67**
Mean		**56.85**	-	**55.56**	-	**57.47**
Standard deviation		**5.73**	-	**4.13**	-	**3.86**

To find the Sum, the Lowest Score, Highest Score, Mean, and the Standard Deviation, researcher used manual calculation and SPSS 17.0.

According to the table of the students' pre-tests scores, the first experiment group (Self-Correct) had the lowest score was 47.22; the highest score

was 69.444; the mean was 56.85; with the standard deviation was 5,73. The second experiment group (Self-Repair) had the lowest score was 50.00; the highest score was 66,67; the mean was 55,56; with the standard deviation was 4,13. The Control group had the sum of the data was 1666.67; the lowest score was 50.00, the highest score was 66.67; the mean was 57.47; with the standard deviation was 3.86.

2. The result of Post-Test score of the Experiment Groups and Control Group

The Post-Test was conducted to the first experiment group (Self-Correct) in XI IPS 3 room on September 1st, 2014, at 10.15-11-45 am., second experiment group (Self-Repair) in XI IPS 2 room at 07.45-09.15 am., then followed by the control group in XI IPS 1 room at 12.00-13.30 am. The post-test scores of the groups were presented in Table 4.2.

Table 4.2. Students' Final Score of Post Test

No	Experiment Group (Self Correct) XI IPS 3		Experiment Group (Self Repair) XI IPS 2		Contro Group XI IPS1	
	Subjects	**Score**	**Subjects**	**Score**	**Subjects**	**Score**
1	**SC1**	80.56	**SR1**	69.44	**C1**	66.67
2	**SC2**	75.00	**SR2**	69.44	**C2**	61.11
3	**SC3**	75.00	**SR3**	72.22	**C3**	66.67
4	**SC4**	66.67	**SR4**	66.67	**C4**	66.67
5	**SC5**	75.00	**SR5**	66.67	**C5**	63.89
6	**SC6**	72.22	**SR6**	58.33	**C6**	63.89
7	**SC7**	63.89	**SR7**	80.56	**C7**	63.89
8	**SC8**	58.33	**SR8**	72.22	**C8**	61.11
9	**SC9**	77.78	**SR9**	61.11	**C9**	61.11
10	**SC10**	80.56	**SR10**	69.44	**C10**	66.67

11	**SC11**	72.22	**SR11**	75.00	**C11**	66.67
12	**SC12**	77.78	**SR12**	75.00	**C12**	75.00
13	**SC13**	83.33	**SR13**	72.22	**C13**	63.89
14	**SC14**	83.33	**SR14**	77.78	**C14**	52.78
15	**SC15**	80.56	**SR15**	63.89	**C15**	86.11
16	**SC16**	75.00	**SR16**	75.00	**C16**	80.56
17	**SC17**	75.00	**SR17**	80.56	**C17**	72.22
18	**SC18**	83.33	**SR18**	69.44	**C18**	55.56
19	**SC19**	75.00	**SR19**	66.67	**C19**	69.44
20	**SC20**	75.00	**SR20**	66.67	**C20**	75.00
21	**SC21**	83.33	**SR21**	80.56	**C21**	63.89
22	**SC22**	63.89	**SR22**	66.67	**C22**	63.89
23	**SC23**	72.22	**SR23**	77.78	**C23**	61.11
24	**SC24**	72.22	**SR24**	72.22	**C24**	61.11
25	**SC25**	69.44	**SR25**	80.56	**C25**	63.89
26	**SC26**	83.33	**SR26**	77.78	**C26**	80.56
27	**SC27**	58.33	**SR27**	72.22	**C27**	58.33
28	**SC28**	77.78	**SR28**	77.78	**C28**	58.33
29	**SC29**	83.33	**SR29**	58.33	**C29**	63.89
30	**SC30**	69.44	**SR30**	72.22	-	-
Sum		**2238.89**	**-**	**2144.45**	**-**	**1913.89**
Lowest score		**58.33**	**-**	**58.33**	**-**	**52.77**
Highest score		**83.33**	**-**	**80.56**	**-**	**86.11**
Mean		**74.63**	**-**	**71.48**	**-**	**66.99**
Standard deviation		**7.18**	**-**	**6,36**	**-**	**7.56**

To find Lowest Score, Highest Score, Mean, and the Standard Deviation, researcher used manual calculation and SPSS 17.0.

According to the table of the students' post-tests scores, the first experiment group (Self-Correct) had the lowest score was 58.33; the highest score was 83.33; the mean was 74.62; with the standard deviation was 7.18. The second experiment group (Self-Repair) had the lowest score was 58.33; the highest score

was 80.56; the mean was 71,48; with the standard deviation was 6.36. The Control group had the lowest score was 52.77; the highest score was 86.11; the mean was 65.99; with the standard deviation was 7.56.

3. Comparison Result of Pre-Test and Post- Test Score of Experiment Groups

a. The Comparasion of Pre-Test and Post-Test Scores in Self-Correct Group

The comparasion between students' pre-test and post-test after doing the experiment can be seen in the following Table 4.3.

Table 4.3. The Comparasion of Pre-Test and Post-Test Scores in Self-Correct Group

No	Subject	Pre-Test	Post-Test	Improvement
1	**SC1**	55.56	80.56	25.00
2	**SC2**	55.56	75.00	19.44
3	**SC3**	52.78	75.00	22.22
4	**SC4**	58.33	66.67	8.34
5	**SC5**	55.56	75.00	19.44
6	**SC6**	55.56	72.22	16.67
7	**SC7**	47.22	63.89	16.67
8	**SC8**	47.22	58.33	11.11
9	**SC9**	61.11	77.78	16.67
10	**SC10**	61.11	80.56	19.45
11	**SC11**	55.56	72.22	16.67
12	**SC12**	52.78	77.78	25.00
13	**SC13**	52.78	83.33	30.56
14	**SC14**	66.67	83.33	16.67
15	**SC15**	52.78	80.56	27.78
16	**SC16**	69.44	75.00	5.56

17	**SC17**	55.56	75.00	19.44
18	**SC18**	55.56	83.33	27.78
19	**SC19**	63.89	75.00	11.11
20	**SC20**	50.00	75.00	25.00
21	**SC21**	63.89	83.33	19.44
22	**SC22**	52.78	63.89	11.11
23	**SC23**	55.56	72.22	16.67
24	**SC24**	55.56	72.22	16.67
25	**SC25**	61.11	69.44	8.33
26	**SC26**	69.44	83.33	13.89
27	**SC27**	50.00	58.33	8.33
28	**SC28**	58.33	77.78	19.45
29	**SC29**	55.56	83.33	27.78
30	**SC30**	58.33	69.44	11.11
Sum		**1705.56**	**2238.89**	-
Lowest score		**47.22**	**58.33**	-
Highest score		**69.44**	**83.33**	-
Mean		**56.85**	**74.63**	-
Standard deviation		**5.73**	**7.18**	-

b. The Comparasion of Pre-Test and Post-Test Scores in Self-Repair Group

The comparasion between students' pre-test and post-test after doing the experiment can be seen in the following Table 4.4.

Table 4.4. The Comparasion of Pre-Test and Post-Test Scores in Self-Repair Group

No	Subject	Pre-Test	Post-Test	Improvement
1	**SR1**	58.33	69.44	11.11
2	**SR2**	50.00	69.44	19.44
3	**SR3**	50.00	72.22	22.22
4	**SR4**	58.33	66.67	8.33
5	**SR5**	55.56	66.67	11.11
6	**SR6**	52.78	58.33	5.56

7	**SR7**	50.00	80.56	30.56
8	**SR8**	52.78	72.22	19.44
9	**SR9**	50.00	61.11	11.11
10	**SR10**	52.78	69.44	16.67
11	**SR11**	58.33	75.00	16.67
12	**SR12**	55.56	75.00	19.44
13	**SR13**	55.56	72.22	16.67
14	**SR14**	58.33	77.78	19.45
15	**SR15**	55.56	63.89	8.33
16	**SR16**	55.56	75.00	19.44
17	**SR17**	55.56	80.56	25.00
18	**SR18**	55.56	69.44	13.89
19	**SR19**	55.56	66.67	11.11
20	**SR20**	50.00	66.67	16.67
21	**SR21**	61.11	80.56	19.45
22	**SR22**	55.56	66.67	11.11
23	**SR23**	58.33	77.78	19.45
24	**SR24**	55.56	72.22	16.67
25	**SR25**	63.89	80.56	16.67
26	**SR26**	66.67	77.78	11.11
27	**SR27**	52.78	72.22	19.44
28	**SR28**	61.11	77,78	16.67
29	**SR29**	52.78	58.33	5.56
30	**SR30**	52.78	72.22	19.44
Sum		**1666.67**	**2144.45**	-
Lowest score		**50.00**	**58.33**	-
Highest score		**66.67**	**80.56**	-
Mean		**55.56**	**71.48**	-
Standard deviation		**4.13**	**6.36**	-

B. Testing Normality and Homogeinity

1. Normality Test

In this study, researcher used One-Sample Kolmogorov-Smirnov Test to test the normality.

1.a. Experiment Group (Self-Correct)

Table 4.5. The Normality Test of Experiment Group (Self-Correct)

One-Sample Kolmogorov-Smirnov Test

		Self-Correct
N		30
Normal Parameters[a,,b]	Mean	74.63
	Std. Deviation	7.18
Most Extreme Differences	Absolute	.15
	Positive	.11
	Negative	-.15
Kolmogorov-Smirnov Z		.84
Asymp. Sig. (2-tailed)		.48

Based on the calculation used SPSS 17 program, the normality of experiment group (self-Correct) was 0.48. The normality of the class was consulted with $_{\chi}$table of Kolmogorov- Smirnov with the level of significance 5% or $_{\chi}$table = 0.05. From the table above showed that the $_{\chi}$experiment was higher than $_{\chi}$table ($0.48 \geq 0.05$), so the data was in normal distribution.

1.b. Experiment Group (Self-Repair)

Table 4.6. The Normality Test of Experiment Group (Self-Repair)

One-Sample Kolmogorov-Smirnov Test

		Self-Repair
N		30
Normal Parameters[a,,b]	Mean	71.48
	Std. Deviation	6.36
Most Extreme Differences	Absolute	.11
	Positive	.09
	Negative	-.11
Kolmogorov-Smirnov Z		.62
Asymp. Sig. (2-tailed)		.84

Based on the calculation used SPSS 17 program, the normality of experiment group (self-Repair) was 0.84. The normality of the class was consulted with χtable of Kolmogorov- Smirnov with the level of significance 5% or χtable = 0.05. From the table above showed that the χexperiment was higher than χtable ($0.84 \geq 0.05$), so the data was in normal distribution.

1.c. Control Group

Table 4.7. The Normality Test of Control Group

One-Sample Kolmogorov-Smirnov Test

		Control Group
N		29
Normal Parameters[a,,b]	Mean	65.99
	Std. Deviation	7.56
Most Extreme Differences	Absolute	.22
	Positive	.22
	Negative	-.12
Kolmogorov-Smirnov Z		1.20
Asymp. Sig. (2-tailed)		.11

Based on the calculation used SPSS 17 program, the normality of Control Group was 0.11. The normality of the class was consulted with χtable of Kolmogorov- Smirnov with the level of significance 5% or χtable = 0.05. From the table above showed that the χexperiment was higher than χtable ($0.11 \geq 0.05$), so the data was normal in distribution.

2. Homogeinity Test

Levene Test Statistic was used to know the homogeinity of variance.

Table 4.8. The homogeinity Test of Variances

Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
.08	2	86	.92

Based on the calculating used SPPS 17.0 program, the data showed the significancy was 0.92. The singnificant of the levene test statistic was higher than 0.05 ($0.92 \geq 0.05$). It meant that the scores were not violated the homogeinity.

C. Testing Hypothesis

The problems of the study were to measure the effect of teacher's corrective feedback using self-correct and self-repair, and to measure the significant difference between both methods on students' speaking score. To answer the problems, researcher used One- Way Anova calculation. The criteria of H_o is accepted when $F_{value} \leq F_{table}$, and the H_o is refused when $F_{value} \geq F_{table}$. Then the criteria H_a is accepted when $F_{value} \geq F_{table,}$ and H_a is refused when $F_{value} \leq F_{table.}$ Or The criteria of H_o was accepted when the significant value ≥ 0.05, and H_o was refused when the significant value ≤ 0.05.

a. One-Way ANOVA Manual Calculation

To answer the problems, researcher used One- Way Anova manual calculation. The researcher calculated:

1. Degree of Freedom Between Groups (DFb) and Within Groups (DFw)

DFb = K-1 = 3-1 = 2

DFb = 2

DFw = N-K = 89-3 = 86

DFw = 86

Ftable = 3.11

2. Average of X_1, X_2, and X_3.

   Average X_1 = Average of X_1 (Self-Correct Scores)

   Average X_1 = **74.63**

   Average X_2 = Average of X_2 (Self-Repair Scores)

   Average X_2 = **71.48**

   Average X_3 = Average of X_3 (Control Group Scores)

   Average X_3 = **65.99**

3. Grand Mean/Total (GM)

   GM = $\frac{X1+X2+X3}{N} = \frac{6277.22}{89}$

   GM = **70.76**

4. Sum of Total Squares (SSt)

   SSt = $\sum(X - GM)^2 = (X1 - GM)^2 + (X2 - GM)^2 + (X3 - GM)^2$

   SSt = **5387.23**

5. Sum of Squares Within Group (SSw)

   SSw = $\sum(X1 - Average\ X1)^2 + (X2 - Avegarge\ X2)^2 + (X3 - Average\ X3)^3$

   SSw = **4264.98**

6. Sum of Squares Between Group (SSb)

   SSb = $SSt - SSw$

   SSb = $5387.23 - 4264.3$

   SSb = **1122.63**

7. Mean Square Between Group (MSb)

MSb = $\frac{SSb}{DFb}$

MSb = $\frac{1122.63}{2}$

MSb = **561.47**

8. Mean Square Within Group (MSw)

MSw = $\frac{SSw}{DFw}$

MSw = $\frac{4264.93}{86}$

MSw = **49.59**

9. F_{value}

$F_{value} = \frac{MSb}{MSw}$

$F_{value} = \frac{561.31}{49.59}$

F_{value} = **11.32**

10. Table of One-Way ANOVA manual calcualtion

Table. 4.9 One-Way ANOVA manual calcualtion

	Sum of Squares	Degree of Freedom (Df)	Mean Square	F_{Value}	Sig
Between Group	1122.63	2	561.31	11.32	.00
Within Group	4264.98	86	49.59		
Total	5387.61	88			

11. $F_{crit/table}$ = 3.11

F_{value} = 11.32

$F_{value} \geq F_{crit/table}$ = $11.32 \geq 3.11$

12. $F_{value} \leq F_{table}$ = H_o is accepted

$F_{value} \geq F_{table}$ = H_o is refused

Since F_{value} was higher than F_{table} (11.32 ≥ 3.11), It meant H_o was refused and H_a was accepted. There was significant diffrences among groups.

b. One Way ANOVA SPSS 17.0 Calculation

To make sure the manual calculation, SPSS 17.0 statistic progam was conducted in this study.

Table 4.10. One Way ANOVA SPSS 17.0

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1122.63	2	561.31	11.32	.00
Within Groups	4264.98	86	49.59		
Total	5387.61	88			

Based on the SPSS 17.0 statistic program calculation, the result showed that Degree of Freedom Between Groups (DFb)= 2 and Degree of Freedom Within Groups (DFw)= 86 (F_{table}=3.11). Then F_{value} was 11.32. It showed F_{value} was higher than F_{table} (11.32 ≥ 3.11). So, H_o was refused and H_a was accepted. There was signifcant differences among groups after doing the treatment, with F_{value} = 11.32 and the significant level was lower than alpha (**α**) (0.00 ≤ 0.05).

Knowing that there was significant differences among groups after doing the treatment, researcher needed to test the hypotheses. Because ANOVA was only to know that there was significant differences among groups, not to

know where the differences among groups are, to answer the research problems and test the hypotheses, researcher applied **Post Hoc Test.**

Table 4.11. Post Hoc Test

Multiple Comparisons

Groups	Groups	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Self-Correct	Self-Repair	3.15	1.82	.20	-1.19	7.48
	Control Group	8.63*	1.83	.00	4.26	13.01
Self-Repair	Self-Correct	-3.15	1.82	.20	-7.48	1.19
	Control Group	5.49*	1.83	.01	1.11	9.86
Control Group	Self-Correct	-8.63*	1.83	.00	-13.01	-4.26
	Self-Repair	-5.49*	1.83	.01	-9.86	-1.11

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

The criteria of H_o is accepted when the significant value is higher than alpha (**α**) (0.05), and H_o is refused when the significant value is lower than alpha (**α**) (0.05).

The first research problem was: Is there significant effect of teacher's corrective feedback using **self-correct** during oral interaction on speaking score of the eleventh grade students at SMA Negeri 1 Katingan Tengah; and the hypotheses are: a. Null Hypothesis (Ho): There is no significant effect of teacher's corrective feedback using self- correct on students' speaking score. b. Alternative Hypothesis (Ha): There is significance effect of teacher's corrective feedback using self-correct on students' speaking a score. Based on the

calculation used SPSS 17.0 statistic program, the result showed significant value was lower than alpha (0.00 lower ≤ 0.05). So, Ho was refused and Ha was accepted, that giving feedback by Self-Correct method had significant effect on students' speaking score of the eleventh grade students at SMA Negeri 1 Katingan Tengah.

Second research problem was: Is there significant effect of teacher's corrective feedback using **self-repair** during oral interaction on speaking score of the eleventh grade students at SMA Negeri 1 Katingan Tengah; and the hypotheses are: a. Null Hypothesis (Ho); There is no significant effect of teacher's corrective feedback using self- repair on students' speaking score. b. Alternative Hypothesis (Ha); There is significance effect of teacher's corrective using feedback self-repair on students' speaking score. Based on the calculation used SPSS 17.0 statistic program, the result showed significant value was lower than alpha (0.01 ≤ 0.05). So, Ho was refused and Ha was accepted, that giving feedback by Self-repair method had significant effect on students' speaking score of the eleventh grade students at SMA Negeri 1 Katingan Tengah.

The third research problem was: Which type of corrective feedback is more effective on students' speaking score; and the hypotheses: a. Null Hypothesis (Ho); There is no significant different effect between teacher's corrective feedback feedback self-repair and self- correct on students' speaking score. b. Alternative Hypothesis (Ha); There is significant different effect between teacher's corrective feedback feedback self-repair and self-correct on students' speaking score. Based on the calculation used SPSS 17.0 statistic program, the

result showed significant value was higher than alpha (0.20 ≥ 0.05). So, Ho was accepted and Ha was refused, that there is no different effect between teacher's corrective feedback feedback self-repair and self- correct on students' speaking score of the eleventh grade students at SMA Negeri 1 Katingan Tengah.

c. Interpretation

Based on the resul of the research, researcher interpretated that:

1. Teacher's corrective feedback using **self-correct** was more effective on students' speaking score than teaching English without giving the corrective feedback. It was shown that the result showed significant value was lower than alpha (0.00 lower ≤ 0.05).
2. Teacher's corrective feedback using **self-repair** was more effective on students' speaking score than teaching English without giving the corrective feedback. It was shown that the result showed significant value was lower than alpha (0.01 lower ≤ 0.05).
3. There was no significant different effect between teacher's corrective feedback using self-repair and self-correct on students' speaking score, both methods were effective in improving students' speaking score. It was based on the calculation used SPSS 17.0 statistic program, the result showed significant value was higher than alpha (0.20 ≥ 0.05). Based on the output of the Mean, it can be concluded that Self-Correct (Mean: 74.63) is more effective than Self-Repair (Mean: 71.48).