CHAPTER IV

RESEARCH FINDING AND DISCUSSION

A. Research Finding

This chapter discusses about finding and discussion. Finding clarifies the result of students' speaking skill by using PMI strategy at class X of Senior High School 1 VII Koto Sungai Sarik. The analysis of the collected data was carried out to answer the research question is to find out whether using PMI strategy gave the significant effect toward students's speaking ability at class X of Senior High School 1 VII Koto Sungai Sarik. It had been done in class X MIPA² and X MIPA⁴. The study was started on November,31th 2017 and ended st Desember The research was tarted b ving treatment for ИII experimental cl using PML strategy for class A^2 and without MIPA⁴ but they treatment for control same material. The, post test was given at the end

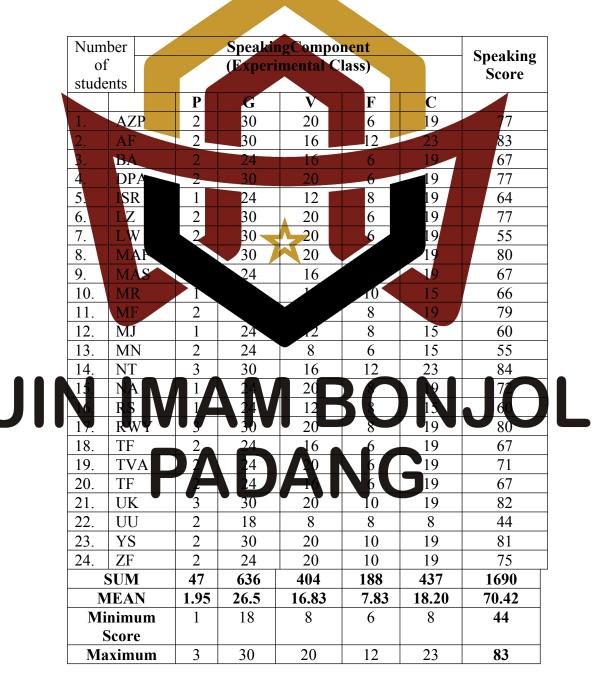
1. Description of Data

ch th t ha d been done ir ample, it rning test for both co scor were evaluated onent pronunciation. by Huges crite la (grammar, vocabulary, fluency and comprehension. The researcher conducted a post-test to see whether the treatment process had any effect toward students' speaking ability especially to the experimental class. While the control class did not have any treatment by the researcher, they were taught as they had usually been taught by their English teacher. Post test

was given for both of this group experimental group and control group. The post test data of experimental and control classes were shown as follow ;

All of the data were analyze to find out the maximum and minimum scores, mean score (X) and standard Deviation (SD) of post test of experimental class and control class.





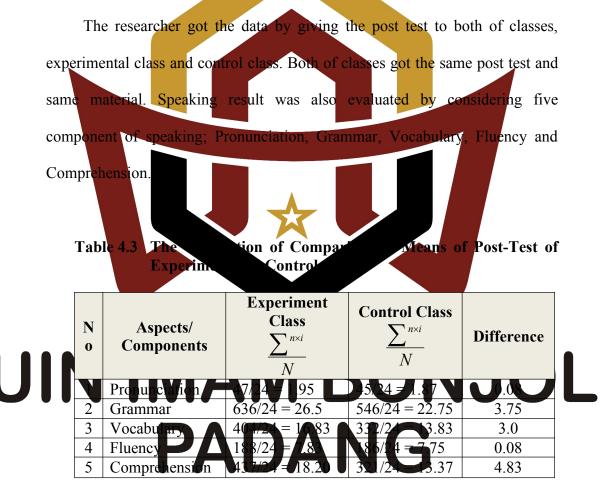
Score						
	10.49					

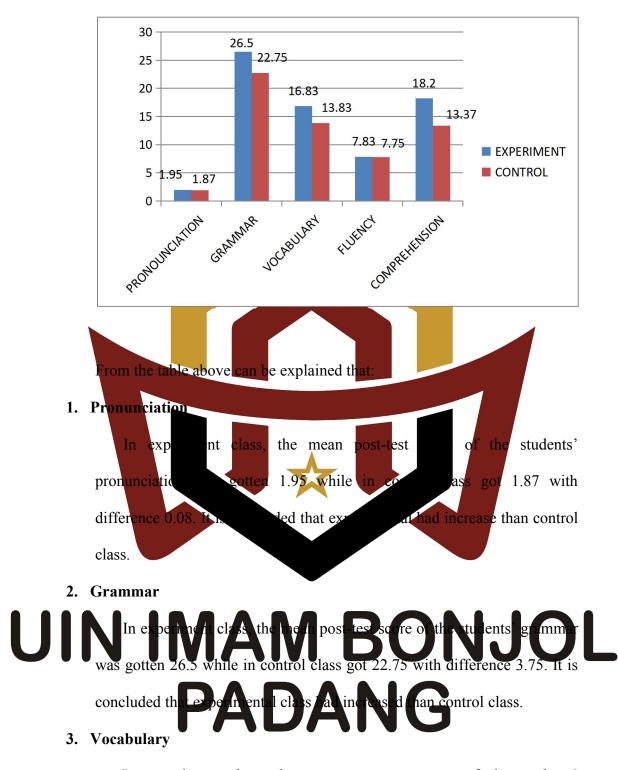
Table 4.2 The Post-Test Score of Control Class

Num				ngCompo			Speaking
stude			(Control Class)				
		G	V	P	F	С	
1.	AWP	2	18	8	8	8	44
2.	AP	1	24	12	8	15	60
3.	BS	2	30	20	10	19	81
4.	BR	2	12	8	6	12	40
5.	DW	2	24	20	6	12	64
6.	FR	2	24	16	6	8	56
7.	MDK	1	24	12	8	15	60
8.	M	2	24	8	6	12	52
9.	MSW	2	24	20	10	19	75
10.	MF	1	12	8	6	12	39
11.	MZ	2	24	8	8	12	54
12.	PA	2	30	20	10	19	81
13.	RAF	2	24	20	10	19	75
14.	RA	2	12	8	10	8	38
15.	RS		24	20		19	73
16.	RAA		9	20		19	80
17.	RAH	2			6	12	60
18.	RPY	2	2-		8	4	46
19.	SF	2	12	8	6	8	36
20.	SW	2	24	12	8	4	50
21	SVA	3	30	20	8	19	80
22.	SP	2	24	8	K B		54
23	W SR		7 4V	20		19	
24.	YPK	1	24	12	8	15	60
	SUM	45	546	332	186	321	1430
	AEAN	1.87	22.75	13.83	7.75	3.37	59.58
	imum 🛡					4	36
Scor							
	imum	3	30	20	10	19	81
Scor	·e						
		St	andar Do	eviation			14.83

From the table above, we know that the post-test score of experimental class was higher than control class. The experimental class had different within

39 points from 44 for minimum score and 83 for maximum score. The score of control class had different within 45 points from 36 for minimum score and 81 for maximum score. The average score of the experimental class was higher than control class. The average score for experimental class was 70, and the average score for the control class was 60. The standard deviation for both classes was also distinguishable. The standard deviation of the experimental class was 13.87.





In experiment class, the mean post test score of the students' vocabulary was gotten 16.83 while in control class gotten 13.83 with difference 4.0. It is concluded that experimental class had increased than control class.

4. Fluency

In experiment class, the mean post-test score of the students' fluency was gotten 7.83 while in control class got 7.75 with difference 0.08. It is concluded that experimental class had increased than control class.

5. Comprehension

In experiment class, the mean score of the students' comprehension was gotten 18.20 while in control class got 13.37 with difference 4.83. It is concluded that experimental class had increased than control class.

Based on the explanation above showed the students' speaking skill in aspect grammar, vocabulary, fluency, and comprehension has really improve by using PMI Strategy. All of the talk were calculated to find out the minimal and maximal score, mean use (X), standard deviation (SD) to espeaking score that

score, mean and (X), standard deviation (SD) for speaking score that got from post test, and rimental class and class.

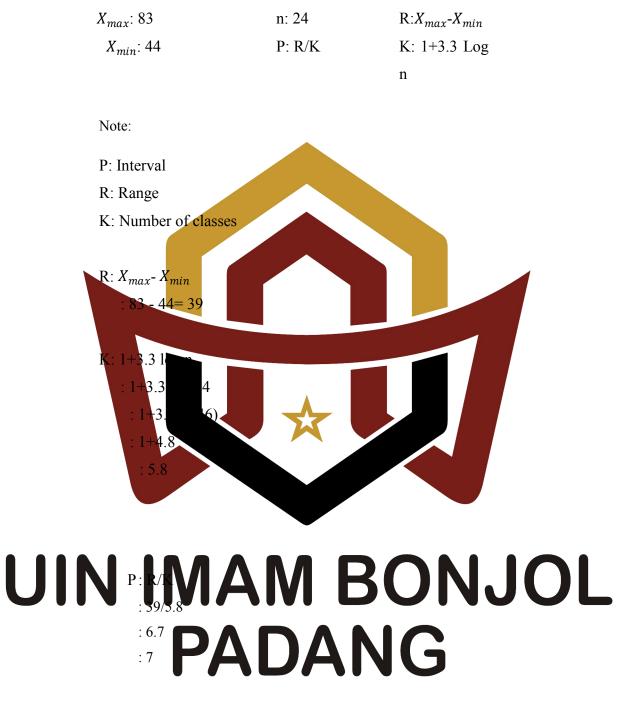
2. Descriptive Data Analysis

The data will be analyzed by sing t test formula. The calculation of t-

seen from the table blow participation of the students interval source in experiment class can be a marked by the students interval source in experiment class can be seen from the table blow participation of the students o

Based on data which was gathered from 48 students specified by as sample, data of students' achievement on speaking skill will be tabulated as follow. Before going to the tabulating, we had to find those interval.

1. Experimental class



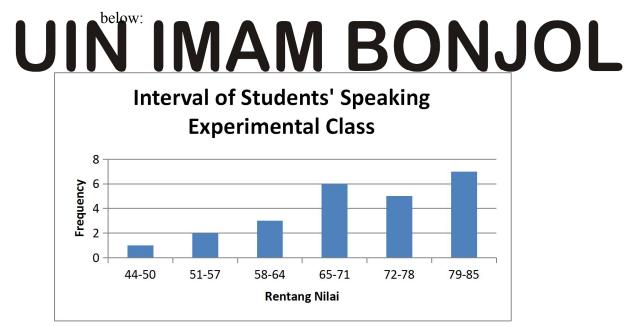
So, the interval of students speaking score is 7. Then, the students score of test in experimental class can be seen in the table below:

NO	INTERVAL (Students' Speaking Score)	Freq	Percentage
1	44-50	1	4%
2	51-57	2	8%
3	58-64	3	13%
4	65-71	6	25%
5	72-78	5	21%
6	79-85	7	29%
		24	100%

Table 4.4The Interval Data Post Test Score of Experimental
Class

From the table above, it was found that the interval data the students' speaking score of post-test in the experimental class was about 44-50, there was one student who got score at that interval or 4 %, while the interval 51-57 there were two sounds who got the score at that interval 8% and there were three students who use the score 58-64 and there were undents who got the score 67-71 and there is tudent who provide a provide results who got the score student who provide results and there were seven students who got the score for a function of the score for the score

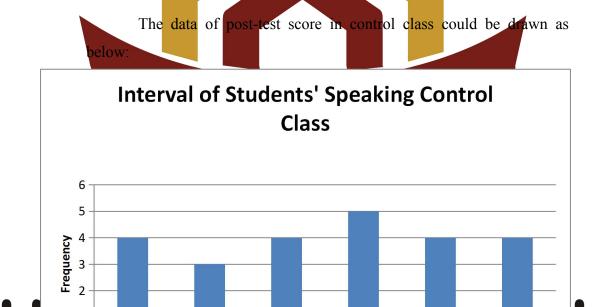
The data of post-test score in experimental class could be drawn as





NO	O ANTHRVIL (Suurents Suraring Score)	N _q	Prcentage
1	36-43	4	17%
2	44-51	3	12%
3	52-59	4	17%
4	60-67	5	20%
5	68-75	4	17%
6	76-83	4	17%
	Total	24	100%

From the table above, it was found that the interval data students' speaking score of post-test in the control class was about 36-43, there were four students who got score or 17%, while the interval 44-51 there were three students who got the score or 12% then there were four students or 17% who got the score at the interval 52-59, beside that there were five student or 20% who got the score at the interval 60-67, and there were four students or 17% who got the score at the interval 68-75, and there were four students or 17% who got the score at the interval 76-83.





1. Experiment class

1

The mean score and standard deviation of post test in Experimental class can be seen in the table 4.6 below:

No	X1	F ₁	X _I ²	F1 X1	$F_1X_I^2$
1	84	1	7056	84	7056
2	83	1	6889	83	6889
3	82	1	6724	82	6724
4	81	1	6561	81	6561
5	80	2	6400	160	12800
6	79	1	6241	79	6241
7	77	3	5929	231	17787
8	75		5625	75	5625
9	72	1	5184	72	5184
10	71	1	5041	71	5041
11	67		4489	67	4489
12	66	4	4359	<mark>2</mark> 64	17436
13	64	1	40 <mark>96</mark>	64	4096
4	60	2	3600	120	7200
15	55	2	3025	1	6050
16	44	1	19 <mark>36</mark>		1936
Total		24	83155		121115
		$\sum F_1 =$	$\sum X_1^2$	e1=	$\sum \mathbf{F}_1 \mathbf{X}_1^2$
	Su.				
			->5	1687	121115

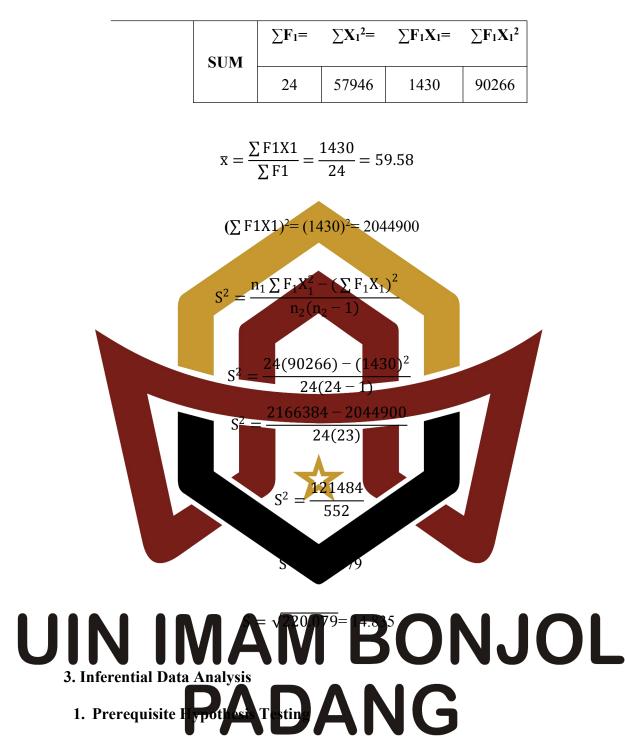
Table 4.6The Mean Score and Standard Deviation of Post Test in
Experimental Class

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 $S^{2} = \frac{n_{1} \sum F_{1} X_{1}^{2} - \left(\sum F_{1} X_{1}\right)^{2}}{n_{1} (n_{1} - 1)}$

 $S^2 = \frac{24(121115) - (1687)^2}{24(24 - 1)}$

		S ² =	= 290676	0 - 28459 4(23)	969		
			$S^2 = \frac{6}{3}$	0791 552			
			$S^2 = 11$	10.1286			
		S	= √110.1	. 3 = 10.494	4		
2. Con	trol Class					$C \rightarrow 1$	1
	een in the ta ble 4.7 T No	ble 4.8 be	low: Score and Class F ₂ 2	I Standar X2 ² 6561	d Deviation	of Post T F ₂ X ₂ ² 13122	
	2		$\frac{2}{2}$	6400 555	50	12800 11250	
	4	73		-	73	53 <mark>29</mark>	
	5	72		184	72	5184	-
_	6	64	1	4096	64	4096	
	7	60	4	3600 3136	240	14400 1136	
UIN	9	54		2916	108	5822	
	10	52	1	2704	52	2704	
	11			1 500		2500	
	12	46-		2116		2116	
	13	44	1	1936	44	1936	
	14	40	1	1600	40	1600	
	15	39	1	1521	39	1521	
	16	38	1	1444	38	1444	
	17	36	1	1296	36	1296	
	Total		24	57964	1430	90266	



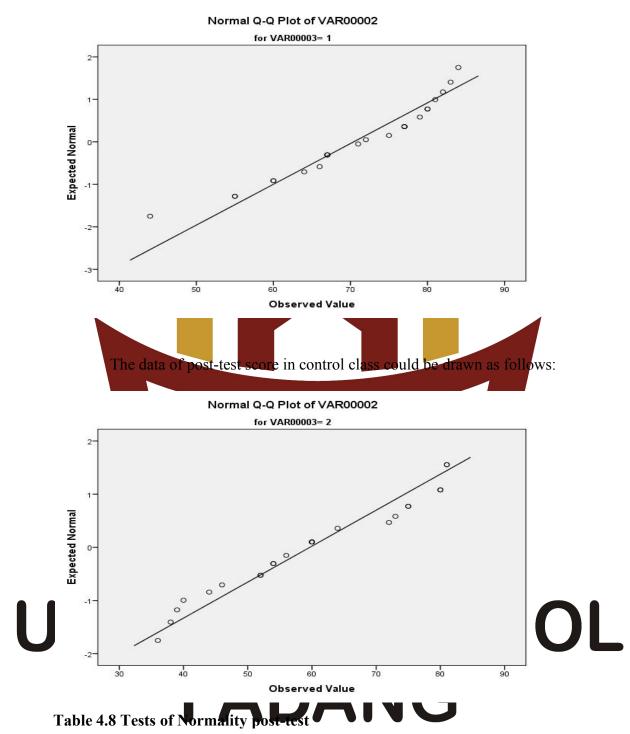
The prerequisite is necessary to determine whether the analysis of data for hypothesis testing can be continued or not. Some data analysis techniques demanding test prerequisite analysis. Analysis of variance requisite that data come from a population with normal distribution and group compared to homogeneous of data. A variety of prerequisite testing analysis, such as a normality test and homogeneity test. The prerequisite analysis of data will be mentioned on the next point.

The prerequisite is necessary to determine whether the analysis of data for hypothesis testing can be continued or not. Some data analysis technique demanding test prerequisite analysis. Analysis of variance requisite that data come from a population with normal distribution and group compared to homogeneity of data.

a. The normality of distribution test

Normality test had an objective to know the population normal or not. In this research, to do the normality test the researcher used Kolmogrov Smirnov and uppiro Wilk. Test was performed SPSS test. Testing criterion and uppiro buted normal if the data was promoted and 0.05. The class was normal. The post-test score contential class could be drawn as follows:

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Tests of Normality

	VAR00003	Kolm	nogorov-Smir	nov ^a	Shapiro-Wilk		
		Statistic	Df	Sig.	Statistic	Df	Sig.
	1	,155	24	,143	,934	24	,122
VAR00002	2	,131	24	,200 [*]	,932	24	,105

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

It was revealed that the distribution was normal. The number in bracket is the degrees of freedom (df) from the table. The table of the normal distribution test result can be seen clearly at the appendix. If the data around and near with the curve line, it means the data was normal.

b. The homogeneity of variance test

To check the homogeneity of variance of the data, Levene's test was conducted. The result of calculating using Levene test is as follows:

Table 4. 9 Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.			
	Based on Mean	2,977	1	46	,091			
	Based on Median	2,928	1	46	,094			
VAR00002	Based on Median and with adjusted df	2,928	1	41,697	,095			
	Based on trimmed mean	3,001	1	46	,090			

Test of Homogeneity of Variance

 Table 4.10 The Post Test Score of Class X SMAN 1 VII Koto Sungai

 Sarik Kabupaten Padang Pariaman



 $MIPA^2$ was 24, the highest score was 83, the lowest score was 44, the mean score was 70.49 and the standard deviation was 10.494.

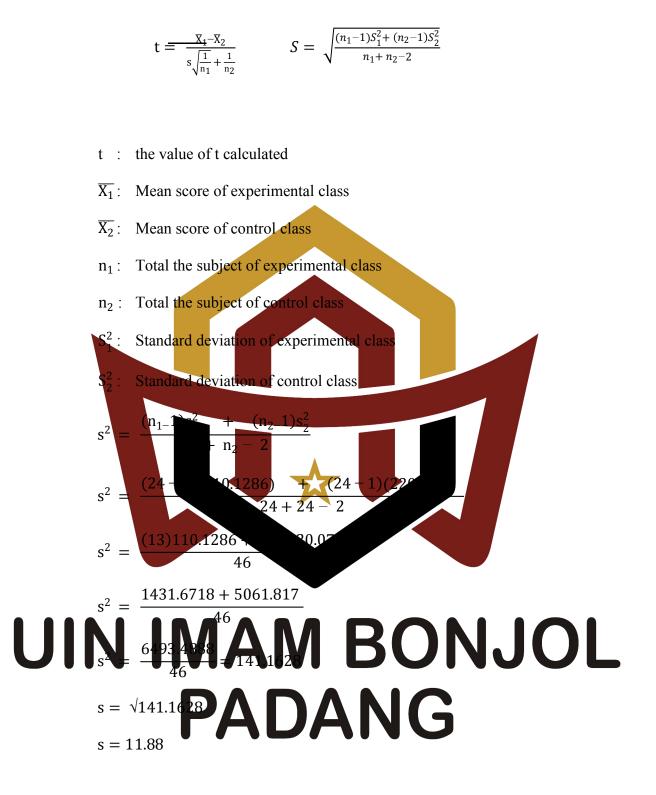
Class	Ν	The Highest Score	8		Standard Deviation	
Control	24	81	36	59.58	14.835	

Table 4.11 The Post Test Score of Class X at SMAN 1 VII Koto Sungai Sarik Kabupaten Padang Pariaman

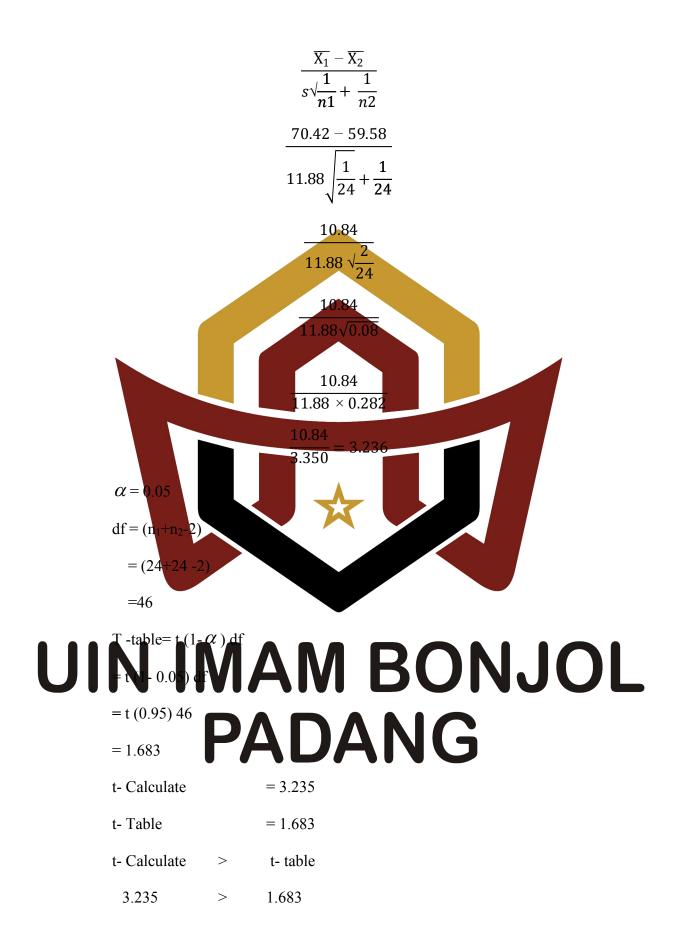
Based on the table above the post test score in control class, the total number of the students at class X MIPA⁴ was 24, the highest score was 81, the lowest score was 36, the mean score was 59,58 and the standard deviation was 14.835. The distributions of students' post test score both of two classes can be seen on the table 4.10 below **Table 4.12** ripti<mark>on of</mark> Post Test Score of Cla MAN 1 VII at S Sun<mark>gai S</mark>arik Kabupa<mark>ten P</mark>ada riaman t Class X ost Test Class X MIPA⁴ 24 **Total Students** Sum of Score 1430 70.42 59.58 **Mean Score** Highest Scor 81 36 From the table above it can be seen the post test score in class X MIPA² (70.42) was higher that class $LMPA^{+}(55.58)$.

1. Hypothesis testing

In order to see whether the hypothesis accepted or rejected, the researcher analyzed by using T-test. The calculation processes can be seen as follow:



Now, we look for the t formula:



After the scores of test in experimental and control classes had been analyzed, the value of t-observed was obtained. The value t-calculate then was compared. If the t-calculate was less or equal than t-table (0.05), automatically there was no differences of students' achievement those taught with Plus Minus and Interesting strategy and those taught with conventional technique. It means that the hypothesis was rejected.

While if t-calculate was higher than t-table at the level of significant 0.05, it automatically that students' achievement those taught with Plus Minus and Interesting strategy higher than those taught with conventional technique. So the hypothesis was accepted.

As the result above, it can be seen that t-calculate in this research was higher than the vario of t-table (3.235>1.683). Therefore, e hypothesis in this research stated to be implementation of Plus Minus Interesting strategy in teaching and teaching occess gave sign ofference on students' speaking skill that referred Provide Landau and the analysis of the animar, Vocabulary, Fluency, and

Comprehension for students at Class X of SMAN 1 VII Koto Sungai Sarik

Based on the data analyzed in the previous chapter, it can be concluded

that PMI Strategy gave significant difference toward students' speaking skill. Through PMI Strategy, the students are able to speak better than the students whom were taught without PMI Strategy. The success of this research can be proved by the result of students' score on speaking testing of both classes. It showed from the mean score of experimental class is better than control class. 70.42 for experimental is higher than 59.58 for control class. The effect was happened because of the experimental class was thought by using PMI Strategy. Then, it was found that t _{calculate} > t _{table} (3.235>1.683). It means that the learning result of teaching speaking by using PMI Strategy gave significant difference rather than teaching and learning process without using that Strategy.

According to Dawn Wee (2010: 45) states that PMI is a simple strategy to look at the problem from all sides. PMI is an effective strategy used by teacher to generate ideas about a question or problem and help them to see and value of both possibilities of solution for the problem. This strategy can make students think better and more confident to speak about their comprehension. their thinking and In this activity, students are stimulated to dev imagination in iptive text. descriptive text d of text that has function to describe such as persor celetc. PMI strategy easier for students. Because they is one of strategy in making

are work together to make a good descriptive text and tell it in front of the class.

Related to her urpre of the research, first to letermine whether three is significant difference on sudence speaking kill by using Null creates, re

researcher can sa pat fere is gniff and hiffeeners students' speaking skill between those who taught using NI strategy and those who taught without PMI strategy that could be seen on findings. It is shown by the posttest result for both classes after giving the treatment by applying PMI strategy.

Second: to know the components of speaking can be improve by using PMI strategy. In this research, there were five component of speaking that

should be measured in conducting the speaking activity, namely: pronunciation, grammar, vocabulary, fluency, and comprehension. In this case, the researcher wanted to see all of component.

After being taught by using strategy ling in several meetings, the students got some improvements of speaking component that was shown by their speaking score. The experimental class improved dramatically after receiving treatment. While the control class shown no significant improvement after receiving no treatment. The research proves that PMI strategy technique have a dramatic influence on students' speaking skill. Statistically calculated, the result of this research, the mean scores of experimental class is 70.42 that taught PMI strategy and it supports the research hypothesis that there is significant differment on students' speaking skill betweene e students' who are taught by PMI strategy and those who are taught with a valistrategy

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