

## CHAPTER IV

### THE RESULT OF THE RESEARCH

#### A. Description of the data

In this chapter, the writer will attempt to submit the data as outcomes of research at Junior High School Al-Rahmah. This research is only for the students of the second grade. The writer takes two classes from class VIII A as an experimental class consisted of 26 students and VIII B as control class consisted of 26 students.

To know the effectiveness of using PORPE strategy to increase students' reading comprehension, the writer gave pre-test before treatment and post-test after treatment. Both of the data would be used as data in this research.

The score of pre-test and post-test of experimental and control class

The students in class VIII A obtained mean score 60 for pre-test and 78,3 for post-test, and students in class VIII B obtained score 53,7 for pre-test and 61,1 for post-test. The score they got in these tests would be described in following table:

**Table 4.1****The Pre-test Score of Experiment Class**

<b>NO</b>	<b>NAME</b>	<b>SCORE</b>
1.	AIF	68
2.	ALR	52
3.	AK	56
4.	AS	50
5.	BNW	64
6.	BS	52
7.	DF	60
8.	DSF	60
9.	FYP	62
10.	FS	68
11.	H	68
12.	HI	52
13.	HL	50
14.	IM	70
15.	IY	60
16.	ILF	50
17.	KAS	60
18.	K	52
19.	M	64
20.	MF	68
21.	N	60
22.	NS	66
23.	PB	60
24.	SCA	60

25.	Q	64
26.	QS	64
<b>TOTAL</b>		<b>1560</b>
<b>AVERAGE</b>		<b>60</b>

$$M = \frac{\sum X}{N}$$

$$= \frac{1560}{26}$$

$$= 60$$

The table above is the result of pre-test of experiment class in VIII A. Based on the result of research, in the pre-test of experiment class was followed by 26 students. The high score only one student and low score is 25 students. The total score is 1560 and the average is 60. This research was done on 24 July 2018 in MTS Al-Rahmah. This score is still under the minimum standard of the English score.

**Table 4.2**

**The Post test Score of Experiment Class**

<b>NO</b>	<b>NAME</b>	<b>SCORE</b>
1.	AIF	80
2.	ALR	80
3.	AK	80

4.	AS	72
5.	BNW	84
6.	BS	70
7.	DF	80
8.	DSF	80
9.	FYP	80
10.	FS	72
11.	H	80
12.	HI	68
13.	HL	70
14.	IM	88
15.	IY	72
16.	ILF	72
17.	KAS	78
18.	K	80
19.	M	84
20.	MF	80
21.	N	76
22.	NS	80
23.	PQ	84
24.	SCA	80
25.	QS	88
26.	Q	78
<b>TOTAL</b>		<b>2036</b>
<b>AVERAGE</b>		<b>78,3</b>

$$\begin{aligned}
 M_1 &= \frac{\sum X_t}{N_t} \\
 &= \frac{2036}{26} \\
 &= 78,3
 \end{aligned}$$

The table above is the result of post-test of experiment class in VIII A Based on the result of research, in the post-test of experiment class was followed by 26 students. The high score is 20 students and low score is 6 students. The total score is 2036, and the average is 78,3. Occurs increase score in the post-test after the researcher teaching reading comprehension by using PORPE strategy. This research was done on 27 July 2018 in MTS Al-Rahmah. The student scores have a good standard of the English score.

**Table 4.3**

**The Pre test Score of Control Class**

<b>NO</b>	<b>NAME</b>	<b>SCORE</b>
1.	A	68
2.	AA	54
3.	AI	54
4.	DM	64

5.	DFH	60
6.	DS	50
7.	ER	56
8.	F	56
9.	FAQ	40
10.	H	52
11.	IF	50
12.	K	40
13.	L	52
14.	N	50
15.	NA	60
16.	NWA	62
17.	S	60
18.	SD	44
19.	SF	52
20.	SI	52
21.	SM	64
22.	SN	62
23.	SS	50
24.	USP	52
25.	PWA	48
26.	WS	50
<b>TOTAL</b>		<b>1398</b>
<b>AVERAGE</b>		<b>53,7</b>

$$M = \frac{\sum X}{N}$$

$$= \frac{1398}{26}$$

$$= 53,7$$

The table above is the result of pre-test of control class in VIII B. Based on the result of research, in the pre-test of control class was followed by 26 students. The high score is nol students and low score is 26 students. The total score is 1398, and the average is 53,7. This research was done on 24 july in MTS Al-Rahmah. This score is still under the minimum standard of the English score.

**Table 4.4**

**The Post test Score of Control Class**

<b>NO</b>	<b>NAME</b>	<b>SCORE</b>
1.	A	68
2.	AA	52
3.	AI	58
4.	DM	68
5.	DFH	62

6.	DS	52
7.	ER	60
8.	F	60
9.	FAQ	54
10.	H	56
11.	IF	56
12.	K	50
13.	L	68
14.	N	68
15.	NA	58
16.	NWA	68
17.	S	62
18.	SD	58
19.	SF	68
20.	SI	68
21.	SM	70
22.	SN	68
23.	SS	58
24.	USP	60



25.	PWA	60
26.	WS	60
<b>TOTAL</b>		<b>1590</b>
<b>AVERAGE</b>		<b>61,1</b>

$$M_2 = \frac{\sum X_2}{N_2}$$

$$= \frac{1590}{26}$$

$$=61,1$$

The table above is the result of post-test of control class in VIII B. Based on the result of research, in the pre-test of control class was followed by 26 students. The high score only one student and low score is 25 students. The total score is 1590 and the average is 61,1. Almost the same score in pre-test and post-test of control class, only difference little score. This research did on 27 July 2018 in MTS Al-Rahmah. This score is still under the minimum standard of the English score. After getting the data from the post-test score of the two classes, then the writer analyzed it by using t-test formula:

**Table 4.5**  
**The Frequency of Distribution Score of Post-Test at**  
**The Experiment Class and Control Class**

No	$X_1$	$X_2$	$x_1$	$x_2$	$x_1^2$	$x_2^2$
1.	80	68	1,7	6,9	2,89	47,61
2.	80	52	1,7	-9,1	2,89	82,81
3.	80	58	1,7	-3,1	2,89	9,61
4.	72	68	-6,3	6,9	39,69	47,61
5.	84	62	5,7	0,9	32,49	0,81
6.	70	52	-8,3	9,1	68,89	82,81
7.	80	60	1,7	-1,1	2,89	1,21
8.	80	60	1,7	-1,1	2,89	1,21
9.	80	54	1,7	-7,1	2,89	50,41
10.	72	56	-6,3	-5,1	39,69	26,01
11.	80	56	1,7	-5,1	2,89	26,01
12.	68	50	-10,3	-11,1	106,09	123,21
13.	70	68	-8,3	6,9	68,89	47,61
14.	88	68	9,7	6,9	94,09	47,61
15.	72	58	-6,3	-3,1	39,69	9,61

16.	72	68	-6,3	6,9	39,69	47,61
17.	78	62	0,3	0,9	0,09	0,81
18.	80	58	1,7	-3,1	28,9	9,61
19.	84	68	5,7	6,9	32,49	47,61
20.	80	68	1,7	6,9	2,89	47,61
21.	76	70	-2,3	8,9	5,29	79,21
22.	80	68	1,7	6,9	2,89	47,61
23.	84	58	5,7	-3,1	32,49	9,61
24.	80	60	1,7	-1,1	2,89	1,21
25.	88	60	9,7	-1,1	9	1,21
26.	78	60	0,3	-1,1	16	1,21
<b>Σ</b>	<b>2036</b>	<b>1590</b>	<b>37,8</b>	<b>34,9</b>	<b>687,48</b>	<b>897,46</b>

$X_1$  = Sum post-test of experimental class

$X_2$  = Sum post-test of control class

$$x_1 = X_1 - M_1$$

$$x_2 = X_2 - M_2$$

After that, the writer calculated them based the t-test formula:

$$M_1 = \frac{\sum X_1}{N_1}$$

$$M_2 = \frac{\sum X_2}{N_2}$$

$$\begin{aligned}
 &= \frac{2036}{26} & &= \frac{1590}{26} \\
 &= 78,3 & &= 61,1
 \end{aligned}$$

$$t_0 = \frac{M_1 - M_2}{\sqrt{\frac{(\sum X_1^2 + \sum X_2^2) (N_1 + N_2)}{(N_1 + N_2 - 2) N_1 \cdot N_2}}}$$

$$= \frac{78,3_1 - 61,1_2}{\sqrt{\frac{(687,48 + 897,46) (26 + 26)}{(26 + 26 - 2) 26 \cdot 26}}}$$

$$= \frac{17,2}{\sqrt{\left(\frac{1584,94}{50}\right) \left(\frac{52}{676}\right)}}$$

$$= \frac{17,2}{\sqrt{(31,69)(0,07)}}$$

$$= \frac{17,2}{\sqrt{2,21}}$$

$$= \frac{53}{1,48}$$

$$= 3,58$$

$$DF = N_1 + N_2 - 2$$

$$= 26 + 26 - 2$$

$$= 50$$

## B. Interpretation of the Data

From the result of experiment class is mean of pre-test score 60 and post-test score 78,3. The result of control class is mean of pre-test 53,7 and post-test 61,1. So, it means that the mean of control class is lower than experiment class. To improve it, the data obtained from the experimental class and control class are calculated with assumption as follow:

If  $t_o > t_t$  the alternative hypothesis is accepted, it means that there is significant between using PORPE strategy and without PORPE strategy.

If  $t_o < t_t$  the alternative hypothesis is rejected. It means that there is not significant between using PORPE strategy and without PORPE strategy.

Based on calculated above was known that t table with level significance 5% = 2,67 and with level significance 1% = 3,26 so t account = 3,58. So,  $2,67 < 3,58 > 3,26$ . It means that  $t_o > t_t$ , and the writer conclude the alternative hypothesis is accepted. It's mean that there is significant effectiveness of PORPE strategy on student's reading comprehension.

### **C. Discussion of Research Findings**

According to the result of the research, it is found that students who were taught by using PORPE strategy increased in their understanding of reading comprehension than student who were not taught by PORPE strategy that will increase students ability in reading comprehension and the effectiveness of students learning process, then students will understand and enthusiast in learning reading comprehension

PORPE strategy can make a high score, because this strategy make an easy to students in reading comprehension.

On the othrer hand, in the control class where students are taught reading comprehension without the PORPE strategy, the students just do the exercises in their worksheets.

This means that reading comprehension understanding in the experimental class and control before treatment is almost the same. Then the t test result show that at a significance level of 5% an at a 1% level of significance, so that  $H_a$  (alternative hypothesis) of the result is accepted and  $H_o$  (null hypothesis) is rejected. That is, the use of PORPE strategy has a significant influence on teaching reading comprehension.

The result of the t- test is also supported by the result of observation that done by experiment class (VIII A). From the observation result there are two indicators in the observation sheet, which is students enthusiasm in learning process and learning, students interested in learning reading comprehension, this is shown when the learning process enjoyed by students using PORPE strategy, another indicator is the process of learning, it shows when the learning process of students is increasing in understanding reading comprehension, they did exercise individually.