## CHAPTER IV

## RESULT AND DISCUSSION

## A. Description of Data

In this chapter, the writer would like to present the description of the data. The sample of this research was the students of the eigth grade of MTs Daar Al Ilmi Cikulur Serang, as stated in previously, he devided them into two groups. The first was experimental class that consists of 41 students from class VIII B and D and the second was control class that consist of 38 students from VIII A and C.

The goal of this research is to know the effectiveness of prediction strategy in teaching reading narrative text in improving students' reading comprehension and to give the report of score of pre-test and post-test from both the experiment class and control class. The researcher analyze the data quantitatively. The result of pretest showed that students of the eight grade of MTs Daar Al Ilmi Cikulur Serang have poor ability in reading comprehension. The students have the difficulties in understanding a text and they have poor in understanding English text but after using prediction, the students' reading comprehension increase gradually, so that they were easy to do post-test. It can be seen from the result of post test and the students' progress in learning activities. In learning reading especially for experimental class the researcher utilzed prediction strategy and employed the graphic organizer so the students were assisted to comprehend

English text because while the students were able to activate their background knowledge by connecting previous knowledge and recalling pass experiences.

To know the effectiveness of prediction strategy toward students' reading comprehension, the researcher gave the test to students as sample both at the experimental claass and control class. The test that used in this research divided in two types, they are pre-test and post-test. The pre-test is given before treatment and post test is given after treatment. Both the reading comprehension tests, pre-test and post-test which the researcher gave to the students were questions those are 20 (twenty) multiple choices and 5 (five) essays, the correct answer is given score 1 (one) and the incorrect answer is 0 (zero) in multiple choices and scoring based on integrity for essays.

The researcher described the students' result of pre-test and post-test in experimental class and control class by the table below:

Table 4.1
Data from Pre-test and Post-Test of Experimental Class

| No | Name | Pre-Test | Post-Test | Gained |
| :---: | :---: | :---: | :---: | :---: |
| 1 | MDA | 37 | 52 | 15 |
| 2 | MAD | 14 | 64 | 50 |
| 3 | MDA | 13 | 83 | 70 |
| 4 | MAM | 33 | 52 | 19 |
| 5 | MFT | 27 | 64 | 37 |
| 6 | MRA | 48 | 53 | 5 |
| 7 | MRH | 40 | 60 | 20 |
| 8 | MDR | 5 | 54 | 49 |
| 9 | MDS | 71 | 64 | -7 |
| 10 | MSA | 16 | 64 | 48 |
| 11 | MDZ | 5 | 43 | 38 |
| 12 | PDM | 12 | 44 | 32 |
| 13 | MRA | 6 | 63 | 57 |
| 14 | RFN | 6 | 64 | 58 |
| 15 | SMY | 39 | 64 | 25 |
| 16 | UZA | 5 | 62 | 57 |


| 17 | ZAL | 55 | 93 | 38 |
| :---: | :---: | :---: | :---: | :---: |
| 18 | ZAM | 6 | 84 | 78 |
| 19 | AAI | 26 | 68 | 42 |
| 20 | DIN | 22 | 65 | 43 |
| 21 | DCF | 14 | 65 | 51 |
| 22 | DZM | 25 | 68 | 43 |
| 23 | FSN | 6 | 43 | 37 |
| 24 | KKH | 2 | 27 | 25 |
| 25 | MAG | 7 | 78 | 71 |
| 26 | MRI | 27 | 66 | 39 |
| 27 | NEP | 55 | 19 | -36 |
| 28 | NKH | 13 | 17 | 4 |
| 29 | NFH | 27 | 70 | 43 |
| 30 | RWJ | 10 | 55 | 45 |
| 31 | RFA | 33 | 38 | 5 |
| 32 | SHQ | 5 | 67 | 62 |
| 33 | SSL | 15 | 26 | 11 |
| 34 | SFA | 28 | 76 | 48 |
| 35 | SMD | 18 | 23 | 5 |
| 36 | SZI | 27 | 52 | 25 |
| 37 | TPI | 34 | 58 | 24 |
| 38 | WAS | 44 | 23 | -21 |
| 39 | YCA | 36 | 78 | 42 |
| 40 | ZAR | 20 | 45 | 25 |
| 41 | ZKA | 88 | 94 | 6 |
| Total |  | $\mathbf{1 0 2 0}$ | $\mathbf{2 3 4 8}$ | $\mathbf{1 3 2 8}$ |
| Average |  | $\mathbf{2 4 , 8 8}$ | $\mathbf{5 7 , 2 7}$ |  |

Determine mean score pre-test and post-test of experimental class, the writer follows the formula :

$$
\begin{aligned}
\mathrm{M}_{1} & =\frac{\sum X 1}{N 1} & \mathbf{M}_{2} & =\frac{\sum X 2}{N 2} \\
& =\frac{1020}{41} & & =\frac{2348}{41} \\
& =24.87 & & =57.26
\end{aligned}
$$

Determine mean with the formula :
$\mathrm{M} \quad=\mathrm{M}_{2}-\mathrm{M}_{1}$
$=57.26-24.87$
$=32.39$

$$
\text { Note : } \quad \begin{array}{ll}
\mathrm{M} & =\text { Mean } \\
\mathrm{M}_{1} & =\text { Mean of Pre-test } \\
\mathrm{M}_{2} & =\text { Mean of Post-test } \\
\mathrm{X} 1 & =\text { Students` score of Pre-test } \\
\mathrm{X} 2 & =\text { Students` score of Post-test } \\
\mathrm{N} & =\text { Number of Students }
\end{array}
$$

The table above showed the students' score of pre-test and post-test at the experimental class. The higest score of pre-test was 88 , it was gotten by one student and the lowest score was 22 , it was gotten by one student and the average of pre-test score 24.88 . Then the higest score of post-test was 94 , it was gotten by one student and the lowest score was 17 , it was gotten by one student and the average score of post-test was 57.27. the students' result can show that the post-test is higher score after applied prediction. From the calculation of the determine mean the experimental class, the average between the pre-test and post-test increase amount 32.39.

## Table 4.2

Data from Pre-Test and Post-Test of Control class

| No | Name | Pre-Test | post-test | Gained |
| :---: | :--- | :---: | :---: | :---: |
| 1 | ADA | 4 | 13 | 9 |
| 2 | ABM | 26 | 62 | 36 |
| 3 | AFQ | 14 | 19 | 15 |
| 4 | ARR | 12 | 14 | 2 |
| 5 | AKH | 26 | 37 | 11 |
| 6 | BMF | 44 | 74 | 30 |
| 7 | EGS | 10 | 13 | 3 |
| 8 | ERZ | 14 | 36 | 22 |
| 9 | FAA | 22 | 18 | -4 |
| 10 | FPR | 45 | 14 | -31 |
| 11 | GAD | 46 | 14 | -32 |
| 12 | HGA | 16 | 16 | 0 |
| 13 | IFF | 15 | 50 | 35 |


| 14 | IRS | 29 | 42 | 13 |
| :---: | :--- | :---: | :---: | :---: |
| 15 | FAF | 18 | 37 | 19 |
| 16 | AAT | 44 | 49 | 5 |
| 17 | IHF | 13 | 59 | 46 |
| 18 | ANZ | 17 | 18 | 1 |
| 19 | AIA | 39 | 40 | 1 |
| 20 | AAL | 64 | 83 | 19 |
| 21 | AGL | 20 | 63 | 43 |
| 22 | ANR | 43 | 57 | 14 |
| 23 | ANZ | 24 | 42 | 18 |
| 24 | AZM | 60 | 70 | 10 |
| 25 | DAZ | 24 | 42 | 18 |
| 26 | HNN | 19 | 40 | 21 |
| 27 | MDA | 53 | 65 | 12 |
| 28 | MKA | 38 | 30 | -8 |
| 29 | NFS | 50 | 61 | 11 |
| 30 | NER | 19 | 83 | 64 |
| 31 | NPI | 19 | 27 | 8 |
| 32 | NMH | 26 | 62 | 36 |
| 33 | NIH | 70 | 40 | -30 |
| 34 | RLA | 25 | 48 | 23 |
| 35 | RFH | 7 | 42 | 35 |
| 36 | SSA | 15 | 57 | 42 |
| 37 | UNA | 23 | 61 | 38 |
| 38 | WFI | 3 | 57 | 54 |
| Total |  | $\mathbf{1 0 5 6}$ | $\mathbf{1 6 5 5}$ | $\mathbf{6 0 9}$ |
| Average |  | $\mathbf{2 7 , 7 9}$ | $\mathbf{4 3 , 5 5}$ |  |

Determine mean score pre-test and post-test of control class, the writer
follows the formula :

$$
\begin{aligned}
\mathrm{M}_{1} & =\frac{\sum Y 1}{N 1} & \mathrm{M}_{2} & =\frac{\sum Y 2}{N 2} \\
& =\frac{1056}{38} & & =\frac{1655}{38} \\
& =27.78 & & =43.55
\end{aligned}
$$

Determine mean with the formula :

$$
\begin{aligned}
\mathrm{M} & =\mathrm{M}_{2}-\mathrm{M}_{1} \\
& =43.55-27.78 \\
& =15.77
\end{aligned}
$$

$$
\text { Note : } \quad \begin{array}{ll}
\mathrm{M} & =\text { Mean } \\
\mathrm{M}_{1} & =\text { Mean of Pre-test } \\
\mathrm{M}_{2} & =\text { Mean of Post-test } \\
\mathrm{Y} 1 & =\text { Students` score of Pre-test } \\
\mathrm{Y} 2 & =\text { Students` score of Post-test } \\
\mathrm{N} & =\text { Number of Students }
\end{array}
$$

The table 4.2 showed that lowest score of pre-test 3 , it was gotten by one student and the higest score of pre-test is 70 , it was gotten by one student and the average score of pre-test was 27.79 . Then, highest score of post-test was 83 , it was gotten by two student and the lowest score of post-test 13 , it was gotten by two student and the average score of post-test was 43.55 . the students' score in control class was less because in this class not use prediction. After the calculation of the determine mean the control class, the average between pre-test and post-test increase amount 15.76.

After comparison between the score of pre-test and post test in experimental class and control class, the researcher calculates deviation and squared deviation. The result of the calculation by using the formula t-test can be seen at the analysis of the data.

## B. Analyzing the Data

After the researcher got the data from pre-test and post-test score from experimental and control class. The researcher analyzed the data by t-test formula with the degree of significance $5 \%$ and the writer used steps of formula.

Table 4.3
The Score of Frequency Distributation

| No | X | Y | $X$ | $Y$ | $\mathrm{X}^{2}$ | $\mathrm{Y}^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 52 | 13 | -5.26 | -30.55 | 27.66 | 933.30 |
| 2 | 64 | 62 | 6.74 | 18.48 | 45.42 | 341.51 |
| 3 | 83 | 19 | 25.34 | -24.55 | 642.11 | 602.70 |
| 4 | 52 | 14 | -5.26 | -29.55 | 27.66 | 873.20 |
| 5 | 64 | 37 | 6.74 | -6.55 | 45.42 | 42.90 |
| 6 | 53 | 74 | -4.26 | 30.45 | 18.14 | 927.20 |
| 7 | 60 | 13 | 2.74 | -30.55 | 7.50 | 933.30 |
| 8 | 54 | 36 | -3.26 | -7.65 | 10.62 | 58.52 |
| 9 | 64 | 18 | 6.74 | -25.55 | 45.42 | 652.80 |
| 10 | 64 | 14 | 6.74 | -29.55 | 45.42 | 873.20 |
| 11 | 43 | 14 | -14.26 | -29.55 | 203.34 | 873.20 |
| 12 | 44 | 16 | -13.26 | -27.55 | 175.82 | 759.00 |
| 13 | 63 | 50 | 5.74 | 6.45 | 32.94 | 41.60 |
| 14 | 64 | 42 | 6.74 | -1.55 | 45.42 | 2.40 |
| 15 | 64 | 37 | 6.74 | -6.55 | 45.42 | 42.90 |
| 16 | 62 | 49 | 4.74 | 5.45 | 22.46 | 29.70 |
| 17 | 93 | 59 | 35.74 | 15.45 | 1277.34 | 238.70 |
| 18 | 84 | 18 | 26.74 | -25.55 | 715.02 | 652.80 |
| 19 | 68 | 40 | 10.74 | -3.55 | 115.34 | 12.60 |
| 20 | 65 | 83 | 7.74 | 39.45 | 59.90 | 1556.30 |
| 21 | 65 | 63 | 7.74 | 19.45 | 59.90 | 378.30 |
| 22 | 68 | 57 | 10.74 | 13.45 | 115.34 | 180.90 |
| 23 | 43 | 42 | -14.26 | -1.55 | 203.34 | 2.40 |
| 24 | 27 | 70 | -30.26 | 26.45 | 915.66 | 699.60 |
| 25 | 78 | 42 | 20.74 | -1.55 | 430.14 | 2.40 |
| 26 | 66 | 40 | 8.74 | -3.55 | 76.38 | 12.60 |
| 27 | 19 | 65 | -38.26 | 21.45 | 1463.82 | 460.10 |
| 28 | 17 | 30 | -40.26 | -13.55 | 1620.86 | 183.60 |
| 29 | 70 | 61 | 12.74 | 17.45 | 162.30 | 304.50 |
| 30 | 55 | 83 | -2.26 | 39.45 | 5.10 | 1556.30 |
| 31 | 38 | 27 | -19.26 | -16.55 | 370.94 | 273.90 |
| 32 | 67 | 62 | 9.74 | 18.45 | 94.86 | 340.40 |
|  |  |  |  |  |  |  |


| 33 | 26 | 40 | -31.26 | -3.55 | 977.18 | 12.60 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 34 | 76 | 48 | 18.74 | 4.45 | 351.18 | 19.80 |
| 35 | 23 | 42 | -34.26 | -1.55 | 1173.74 | 2.40 |
| 36 | 52 | 57 | -5.26 | 13.45 | 27.66 | 180.90 |
| 37 | 58 | 61 | 0.74 | 17.45 | 0.54 | 304.50 |
| 38 | 23 | 57 | -34.26 | 13.45 | 1173.74 | 180.90 |
| 39 | 78 |  | 20.74 |  | 430.14 |  |
| 40 | 45 |  | -12.26 |  | 150.30 |  |
| 41 | 94 |  | 36.74 |  | 1349.82 |  |
| $\Sigma$ | $\mathbf{2 3 4 8}$ | $\mathbf{1 6 5 5}$ | $\mathbf{- 0 . 0 6}$ | $\mathbf{0 . 1 2}$ | $\mathbf{1 4 7 6 1 , 3 1}$ | $\mathbf{1 5 5 4 3 , 9 3}$ |

Note :
X : Score of Post-test of the Experimental Class
Y : Score Post-test of the Control Class
x : Deviation of Experimental Class
y : Deviation of Control Class
$x^{2} \quad$ : The Squared of Control Class
$y^{2} \quad$ :The Squared Deviation of Control Class
a. Determining mean of variable X with formula:

$$
\begin{aligned}
\mathrm{M}_{\mathrm{x}} & =\frac{\sum X}{N_{1}} \\
& =\frac{2348}{41} \\
& =57.26
\end{aligned}
$$

b. Determining mean of variable Y with formula:

$$
\begin{aligned}
\mathrm{M}_{\mathrm{y}} & =\frac{\sum Y}{N_{2}} \\
& =\frac{1655}{38} \\
& =43.55
\end{aligned}
$$

c. Determining deviation standard of variable X with formula:

$$
\begin{aligned}
\mathrm{SD}_{\mathrm{x}} & =\sqrt{\frac{\Sigma x^{2}}{N_{1}}} \\
& =\sqrt{\frac{14671.31}{41}} \\
& =357.83 \\
& =18.91
\end{aligned}
$$

d. Determining deviation standard of variable Y with formula:

$$
\begin{aligned}
\mathrm{SD}_{\mathrm{y}} & =\sqrt{\frac{\Sigma Y^{2}}{N_{1}}} \\
& =\sqrt{\frac{15543.93}{38}} \\
& =\sqrt{409.05} \\
& =20.22
\end{aligned}
$$

e. Determining standard eror of mean variable I with formula:

$$
\begin{aligned}
S E_{M_{x}} & =\frac{S D_{1}}{\sqrt{N_{1}-1}} \\
& =\frac{18.91}{\sqrt{41-1}} \\
& =\frac{18.91}{\sqrt{40}} \\
& =\frac{18.91}{6.32} \\
& =2.99
\end{aligned}
$$

f. Determining standard eror of mean variable II with formula:

$$
\begin{aligned}
S E_{M_{y}} & =\frac{S D_{2}}{\sqrt{N_{2}-1}} \\
& =\frac{20.22}{\sqrt{38-1}} \\
& =\frac{20.22}{\sqrt{37}} \\
& =\frac{20.22}{6.08} \\
& =3.32
\end{aligned}
$$

g. Determining standard error of mean difference variable X and variable Y with formula:

$$
\begin{aligned}
S E_{M_{1}-M_{2}} & =\sqrt{S E_{M_{1} 2}+} S E_{M_{2^{2}}} \\
& =\sqrt{2.99^{2}+3.32^{2}} \\
& =\sqrt{8.94+11.02} \\
& =\sqrt{19.96} \\
& =4.46
\end{aligned}
$$

h. Analyzing the result by using calculation of the t-test as follow:

$$
\begin{aligned}
t_{o} & =\frac{M_{1}-M_{2}}{S E_{M_{1}-M_{2}}} \\
& =\frac{57.27-43.55}{4.46} \\
& =\frac{13.72}{4.46} \\
& =3.07
\end{aligned}
$$

i. Determining degrees of freedom (df) with formula:

$$
\begin{aligned}
d f & =\left(N_{1}+N_{2}\right)-2 \\
& =(41+38)-2 \\
& =79-2 \\
& =77 \\
& 3.07 \geq 1.99
\end{aligned}
$$

From the data, that mean of pre-test score obtained by students of VII B \& D as experimental class $=24.88$ and the pre-test score obtained by students of VIII A \& C as cotrol class $=27.79$. the higest score in two classes was different that was VII B \& D as experimental class got 88 and VIII A \& C as control class got 70. And the lowest score of pre-test in both classes was 2 for experimental and 3 for control class.

Then, the means of post-test at the experimental score $=57.27$ was greater than control class $=43.55$ the higest score of post-test at experimental class got 94 and control class got 83 , and the lowest post-test score of experimental class is 17 , and the lowest post-test score of control class is 13 .

According to the statistical calculation above, the value of $t_{o}$ is 3.07 and the degree of freedom is 77 with $5 \%$ degree of significance used by the researcher. Based on the significance, it can be seen that on $\mathrm{df}=77$ in significance $5 \%$ the value of $t_{\text {table }} 1.99$ by comparing the result of the $t_{\text {table }}$ and $t_{o}$ in the degree of significance of $5 \%, t_{o} \geq t_{\text {table }}=3.07 \geq 1.99$. From the result of statistical calculation, it was obtained the t-observation $t_{o}$ was 3.07 ; meanwhile, the t-table $\left(t_{\text {table }}\right)$ of df 77
in significance $5 \%$ was 1,99 . It means t-observation $\left(t_{o}\right)$ was higher than t-table ( $t_{\text {table }}$ ), so null hypothesis $\left(H_{o}\right)$ rejected and alternative hypotesis $\left(H_{a}\right)$ is accepted.

## C. Interpretation of the Data

In this research, the researcher described the interpretation of the research findings and testing the hypothesis of research. The research was held to answer the question How is the students' reading comprehension on the narrative text of the eighth grade of Islamic Boarding School Daar Al Ilmi Cikulur? How is the effectiveness of predicting strategy in teaching reading narrative text of the eighthgrade students of Islamic Boarding School Daar Al Ilmi Cikulur? In order to answer the question the researcher formulated the Null Hypothesis $\left(H_{o}\right)$ and the Alternative Hypothesis $\left(H_{a}\right)$ as follow:
$H_{a}$ (Alternative Hypothesis) : there is a significant difference of students' reading comprehension achievement between stdents who are thought using prediction strategy and students who are taught without using prediction strategy.
$H_{o}$ (Nuull Hypothesis) : there is not significant difference of students reading comprehension achievement between students who are taught using prediction strategy and students who are taught without using prediction strategy.

The assumption of this hypothesis of this hypothesis as follow :
If $t_{o} \geq t_{\text {table }}$ the Null Hypothesis is rejected and Alternative Hypothesis is Accepted. It means there is a significant difference of students' reading
comprehension achievement between students who are taught using prediction strategy and students who are taught without using prediction strategy.

The researcher summarized that $t_{o} \geq t_{\text {table }}$ it means that the Null Hypothesis is rejected and Alternative Hypothesis is accepted. The researcher analyzed the result of calculation that $H_{o}$ rejected and $H_{a}$ is accepted. It can be seen from the calculation of t-test that shows that in the degree of significance of $5 \%, t_{o} \geq t_{\text {table }}=$ $7.35 \geq 1.99$. From the result of statistical calculation, it was obtained the $t$ observation $t_{o}$ was 3.07 ; meanwhile, the t-table ( $t_{\text {table }}$ ) of df 77 in significance $5 \%$ was 1,99 . It means t-observation $\left(t_{o}\right)$ was higher than t-table $\left(t_{\text {table }}\right)$, so null hypothesis $\left(H_{o}\right)$ rejected and alternative hypotesis $\left(H_{a}\right)$ is accepted.

Based on the data above, the study can be inferred that prediction strategy has effect on students' reading comprehension. Besides, the data also show that the increasing of learning reading skill caused by using prediction strategy to solve the problem that has thought in the statement of problem. The researcher use prediction strategy to build their background knowledge and also to give motivation in learning reading. As the researcher state that the problem of students in learning reading. So that, the researcher used prediction strategy to teach reading comprehension in order to build the connections from their own knowledge, prior knowledge and experience so when they read a text they interest to the text and comprehend a text easely.

Besides that, the researcher used prediction strategy and implement it by graphic organizer, because graphic organizer include both words and visual images
and facilitate the integration of long-term memory and new learning. ${ }^{1}$ So the student will more interest and generally have more background and long-term knowledge.

In applying prediction strategy in narrative text would be used the media. The media which would be used is picture. The use of picture are more sufficient and practices than words, they are easier to recall and to remember than words, further more they expose real life situation although it happened a long time ago. Picture is used to help presenting information to the class. So, the picture is very important to use in narrative text by applying prediction strategy to make the students easier in predicting the picture correctly and the students can be attentive, energetic, understanding of the text well.

There are some advantages of teaching prediction strategy, they are:

1. Predicting helps students set a purpose for reading and anticipate what students will read.
2. Making a reviewing prediction helps students interact with the text.
3. Predictions help connect students prior knowledge with the information being learned.
4. Predictions help students' developmental models that they can use whenever they read.
5. Mental models help students remember what they have read.

[^0]6. By supporting student prediction with evidence from the text, they develop critical thinking skills and improve comprehension. ${ }^{2}$

[^1] Descriptive Text by Applying Prediction Strategy". Tapanuli, Vol. 1, No. 1, (August 2018), 185


[^0]:    ${ }^{1}$ Katherine McKnight. The Teacher's Big Book of Graphic Organizer. (San Francisco: Jossey-Bas, 2010), 1.

[^1]:    ${ }^{2}$ Musrafidin Simanullang \& Elida Susi. "Improving Students' Reading Comprehension of

