## CHAPTER III

## RESEARCH METHODOLGY

## A. The Research Design

This research was experimental research. In this research the effect of using Think, Talk, Write (TTW) strategy as dependent variable and students' writing ability as independent variable. Researcher divided sample into two groups. They concern for experimental research. According to Sugiyo no (2008:72), experimental research methods can be
interpreted as the researeh methods usedtofind the effect of a particular
treatment o gay $\quad$ f: $367-368$ ), the experimental res
research tha the ohly type of
It represents the sin a run away conditien.
variable. In an experimental elationship. independent variable, controls other relevant variables, and observes the UIN IMAM BONJOL
research is the most structured of all types of research. In an experimental study, the ressure is in on the a io for er erinning. He or she selects the groups, decides what treatment will go to which group, controls extraneous variables, and measures the effect of the treatment at the end of the study.

The two groups were taught by different writing strategy but same teacher and same topic. The experimental group was taught by using TTW strategy and the control class was taught by conventional strategy.

The treatment was given to experimental class about six meetings. Every meeting the researcher was given different topics. At the end of treatment, the researcher was gave the students post-test. So, at the end of the research, the researcher was use the post-test to see how both of them, using Think, Talk, Write (TTW) strategy to improve students writing


## B. Population and Sample

## 1. Population

Gay states population is the group of interest to the researcher, the group which she or he would like the result of the study to generalize whereas sample is a number of individuals for a study in such a way that the individual represent the larger group from which they are selected. This research was conducted at Islamic Junior High School 3 Solok Selatan. The population on this research is students of class VII Islamic Junior High School 3 Solok Selatan. There were two classes took from


From the table above we can conclude that total of population are 151 students, consist of 5 classes, namely VII.1, VII.2, VII.3, VII.4, VII.5.

After deciding population, the researcher used SPSS to show normality and homogeneity from the both classes above. After the researcher did the normality test and got the normal data. Then the researcher did the homegeneous variation test. This test had an objective as to know the sample homogeny or not. The researcher did the test of homogeneity by using Test of homogeneity of variance. If the data were
 to do normality test, it is SPSS (Statistical product and service solution) UIN HMAM BONJOL more than 0.05 . PADANG

Table 4. Tests of Normality

|  | VAR0 | Kolmo | rov-Sm | nov ${ }^{\text {a }}$ |  | iro-Wilk |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0002 | Statistic | df | Sig. | Statistic | df | Sig. |
| VAR0000 | VII. 1 | . 118 | 31 | .200* | . 946 | 31 | . 120 |
| 1 | VII. 2 | . 121 | 31 | .200* | . 945 | 31 | . 110 |
|  | VII. 3 | . 133 | 31 | . 172 | . 958 | 31 | . 255 |
|  | VII. 4 | . 139 | 29 | . 161 | . 952 | 29 | . 204 |
|  | VII. 5 | . 159 | 29 | . 059 | . 941 | 29 | . 104 |

a. Lilliefors Significance Correction
*. This is a lower bound of the true significance.
c) Test of Homogeneous Variat,


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Table 5. Test of Homogeneity of Variance

|  | Levene <br> Statistic | df1 | df2 | Sig. |
| :---: | :---: | :---: | :---: | :---: |
| VAR0000 Based on Mean <br> 1 Based on Median <br>  Based on Median and <br>  with adjusted df <br>  Based on trimmed mean | . 881 | 4 | 146 | . 477 |
|  | . 780 | 4 | 146 | . 540 |
|  |  |  |  |  |
|  | . 780 | 4 | 131.544 | . 540 |
|  |  |  |  |  |
|  | . 876 | 4 | 146 | . 480 |

## UIN MMAM BONJOL <br> sample.

In order to get sample, the researcher was used cluster random sampling. Gay (2000:124) stated that cluster random sampling involves the following steps:
a) Identify and define the population
b) Determine the desired sample size.
c) Identify and define a logical cluster (neighborhood, school, city block, etc.)
d) List all clusters (or obtain a list) that make up the population of clusters.

h) Include in your study all pop members in each selected cluster.

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Based on Arikunto (1997:136), research instrument is the tool or facilities used by writer in collecting data: it is used to get the accurate, complete and systematic reseach result. In this reseach, the instrument that writer used is written test which is used to collect the data about the effect
of Thin, Talk, Write (TTW) strategy to improve students' writing skill in descriptive text at Islamic Junior High School 3 Solok Selatan. The written test was given in Pre-test. In this case, the researcher ask to choose one of the topics given and create the story in the written form during 2 X 40 minutes. The topics is : My Best Friend, My School, My Favorite Place, My Lovely Home, and My Idol. Instrument Sample for writing skill score


The researcher used the Jacob's criteria (1981:90) in scoring the students'writing. PADANG

## D. Procedure of Doing Research

There are some steps to conduct the research such as preparation, application, and finishing.

## 1. Preparation.

The researcher collected the data that relate with preparation steps:


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Table 7. Treatment Procedure for Experimental and Control Groups



3. Finishing Steps

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b. Processing data towards experiment and control class by using T-test -PADANG
c. Getting finding.

## E. Technique of Data Collection

For this research, the researcher used writing test to collect the data. The test is given in post-test. Post-test is the process of identifying
the students' writing skill after giving the treatment. Treatment is the process of Think Talk Write as strategy a in teaching and learning process to improve the student's writing skill.

In analyzing and assessing the students' writing ability, the analytic scale is used as described in table below:





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t-test that take from Gay (1987) and Statistical Software Program SPSS version 20. In this case, T-test means a statistical procedure use to determine whether there are many significant differences between the mean of the two sets score from control and experiment class.

In analyzing the students' test score, some steps were did before analyzing the different mean by using t -test formula as follows;

1. This formula applied to decide mean of students' test score in experimental and control groups;

$$
\begin{aligned}
& \overline{\mathrm{X}_{1}}=\frac{\sum \mathrm{F}_{1} \mathrm{X}_{1}}{\sum \mathrm{~F}_{1}} \text { (Experimental group) } \\
& \overline{\mathrm{X}_{2}}=\frac{\sum \mathrm{F}_{2} \mathrm{X}_{2}}{\sum \mathrm{~F}_{2}} \quad \text { (Control group) }
\end{aligned}
$$



## UIN IMAM BONJOL "PADANG <br> $$
S^{2}=\frac{\left(n_{1}-1\right) S_{1}^{2}+\left(n_{2}-2\right) S_{2}^{2}}{n_{1}+n_{2}-2}
$$

Notes;
$t$ : The value of $t$ calculated / observer / obtained
$\overline{X_{1}}$ : Mean score of experiment sample
$\overline{X_{2}}$ : Mean score of control sample
$\mathrm{n}_{1} \quad$ : The number of subject of experimental class
$\mathrm{n}_{2} \quad:$ The number of subject of control class
$S_{1}^{2}$ : Standard deviation of experimental class
$S_{2}^{2} \quad:$ Standard deviation of control class


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