CHAPTER III

METHODOLOGY OF THE RESEARCH

A. Research Method

Experimental method will use design to collect data in such a way that threats to the reliability and validity of the research are minimized. Experiment research emanates from the fact that experimental researchers in a give domain of nature are spread out widely over space and time.\(^1\) This method is not only sample collecting data, but also covers data analyze, and interpretation the researched problem.

The method have applied in this research is experimental method. Experiments carried out in or relationship between variable. A variable, as the term it self suggest, is anything which does not remain content. In the experiment research there are three type of research such as pre-experiment, quasi-experiment and true-experiment. The writer took quasi-experiment for research in classroom, David Nunan said in the research methods in language learning book “quasi-experiment

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is has both pre-tests and post-test, experimental and control groups, and not random assignment of subject”.

In this research the researcher will determine the quasi experiment research uses quantitative research. The quasi experiment types has both pre-test and post-test, and has experimental groups and control groups.

B. The Design of Research

The experimental method will choose in this study since the writer’s study have some characteristic which are the same with experimental method and this research conducted at Mts Al-Fath Cilegon. The first characteristic in the experimental method is the research will do in a large scale and would not make any generalization again. The second characteristic will investigation the natural background: the setting of this study is classes where pre-service teaching program occur, and the participants will involved the research and experience in teaching speaking and understanding the text which is give in pre-test and post-test.

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C. Place and Time Research

This research will be conducted at Mts Al- Fath Cilegon. The school located on Jl. Sunan Ampel Link. Kubangmenyawak Warnasari Citangkil Cilegon. The writer chooses this place, because English achievement especially in teaching material in this school is not so good. The writer hopes this strategy can be develop their English achievement especially in vocabulary mastery.

D. The Population and The Sample

1. Population

Population is overall the research subjects that if someone wants to examine all elements within the study area, the work was a study population. The research takes population in the second grade of Mts Al Fath Cilegon.

2. Sample

Sampling is concerned with the selection of a subset of individuals from within a statistical population to estimate characteristic of the whole population. In this research, will be conducted take the nonrandom

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3 Prof. Dr Suharsimi Arikunto, *Prosedur Penelitian Suatu Pendekatan Praktik*, (PT. Rineka Cipta, Jakarta 2006), p.130
sampling methods are also common in second language research. Common nonrandom methods include systematic, convenience, and purposive sampling.4

The research takes two classes as sample research from the second grade student at Mts Al Fath Cilegon. The research chooses class VIIIC as Experimental class with 30 students and VIIIB as control class with 30 students.

E. The Research Instrument

Every research needs some instruments to collect data. In this research, the researcher will get the data need two tests. There are pre-test and post-test to investigate the both of variables, achievement tests are used in this study.

- Pre Test

The Pre Test was administered at the beginning of the first meeting.

- Post Test

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The Post Test was Carried out in order to check the differences between learning English using Simon Says game and learning English using traditional material.

F. The Technique of Data Collecting

To collects the files to be use, the writer will uses several technique as below:

1. Observation

   observation is one of technique data collecting with observe every event in the class. The researcher can collect information that happened in the class since learning. It is focused in how far the influence of simon say game on students vocabulary. The purpose of this step is asking the permission to the headmaster of the Mts Al- Fath Cilegon for this research at his place.

2. Test

   This test is intend to know the students’ ability in vocabulary. Because of the research in experimental, there will be two kinds of test involving pre-test and post-test. In the pre-test, students will be tested to vocabulary mastery without Simon says game in their classroom. While the post-test used in
this research, is to observe the students vocabulary mastery by using Simon says game in the class.

In this process, the writer will uses nonequivalent design and this is form of nonequivalent design, that is:

\[ O \times O \]

Note:

\[ O \] = Pre-Test

\[ x \] = Treatment

\[ O \] = Post-Test

G. The Technique of Data Analyzing

In analysis data comprises following steps:

1. The results of pretest score of the experiment class by using Simon says game in teaching vocabulary. it is name variable X

2. The results of posttest score of the experiment class by using Simon Says game in teaching vocabulary. It is named variable Y.

The data is analyzed by statistic, the writer analyzed the data is the form of:
1. Investigating student’s worksheets gives and describe score in the table

2. Determine mean of variable $X_i$ with formula:

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

3. Determine of variable $X_2$ with formula:

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

4. Determine deviation score variable $X_2$ with formula:

$$X_1 = X_1 - M_1$$

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

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

Note:

$t$ : tcount ttable

$M_1$ : Mean $X_1$

$M_2$ : Mean $X_2$

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X1 : Squared difference between X1 – X2
X2 : Squared difference between X1 – X2
N_1 : Number of student from experiment class
N_2 : Number of student from control class
2 : Consonant number