

CHAPTER III

METHODOLOGY OF RESEARCH

A. The Method Of The Research

The writer used the experimental research. Experimental research is a procedure for testing a hypothesis by setting up a situation in which the strength of relationship between variable can be tested. According to David Nunan, "Experimental are carried out in order to explore the students of relationships between variables".¹ There are two kind of experimental, namely: pre experimental or quasi experimental and true experimental.² This is an experimental research aims to identify the use poster on students' writing descriptive text. The type of experiment of this research is quasi experiment.

¹ David Nunan, *Research*, p. 41

² Suharsimi Arikunto, *Prosedur Penelitian Suatu Pendekatan Praktik*, (Jakarta: PT. Rineka Cipta, 2006), p.84

Accorrding to David Nunan, “quai experiment has pre test and post test, the experimental and control group but no random assignment of subject”.³

B. The setting and time of the reseach

The writer look the place of research in MTs Nurul Islam kota Serang. It is located at Jl. Raya Banten No.60, Lopang, kec. Serang -Banten.

C. Population and sample

1. Population

Population is case situation or individual who share one or more characteristic. Meanwhile, according to Riduwan “Population is the overall of the characteristic or the result of unit meansurement as object of research.”⁴ Thus, population is the object of research from which the researcher may collect data. The population of this research is the second

³ David, *Research*, p. 41

⁴Riduwan, *Belajar Mudah Penelitian*, (Bandung: Alfabeta cv, 2012), p.54

grade student of VIII A & VIII B classes of MTs
Nurul Islam kota Serang.

2. Sample

According to David Nunan, "Sample is a subject individuals or cases from within population".⁵ Sample is a set of observations drawn from a population by a defined procedure. In talking sample, the writer not uses random sampling method, because the research uses quasi experimental.

The research takes 42 students as samples from population such as. Samples are 21 from VIII A and 21 VIII B. The research took class VIII A as an experimental class and VIII B as a control class as sample and both of them consist of 21 student.

D. Technique of data collecting

The technique of collecting data is used by the researcher to collect necessary data. Technique is the way and technique data collecting in which the researcher does

⁵ David, *Research*, p. 232

experiment. In this research, the researcher collects the data by using observation, and test.

1. Observation

Observation is implemented by direct survey of research object. The researcher observes respondent activities directly to place of the research.

2. Test

Test is a series of questions or exercises and other tools used to measure skill, knowledge intelligence, ability or talent possessed by individuals or groups. In this research the researcher used writing test to know the influence of using poster on students' writing descriptive text. The test divided into two parts, pre test and post test.

a). Pre-test

pre-test is carrying out for the initial equivalent of the experimental and the control groups. Pre-test given to students before conducted treatment of teaching in the calssroom. The writing skill especially in

descriptive text at MTs Nurul Islam kota Serang. The process to give pre-test, the writer use usual method in experiment class and control class.

b). Post-test

post-test is carrying out to check significant difference between the two groups after the treatments given to the experimental one. Post test do after conducted treatment of teaching in the classroom. The writer will give post-test after using flashcard to check the significant of the difference on students, writing skill especially in Descriptive text at MTs Nurul Islam kota Serang. The process of post-test in control class the writer teaching usual method but in experimental class the writer use poster media. The steps post-test are, the first the writer requires the students to make group, the second the writer give each group poster.

E. The Technique of Data Analyzing

After collect the data, the writer analyzed the data in form of:

1. Investigating students worksheet gives describe score in table
2. Determining mean of variable X_1 with formula:

$$M1 = \frac{\sum x^1}{N^1}$$

3. Determining mean of variable X_2 with formula:

$$M2 = \frac{\sum x^2}{N^2}$$

4. Determining derivation score variable X_1 with formula:

$$X_1 = X_1 - M_1$$

5. Determining derivation score variable X_2 with formula:

$$X_2 = X_2 - M_2$$

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

$$t_o = \frac{M_1 - M_2}{\sqrt{\frac{(\sum x_1^2 + \sum x_2^2)(N_1 + N_2)}{(N_1 + N_2 - 2)(N_1 \cdot N_2)}}}$$

Note:

M_1 = Mean score of the data experiment class

M_2 = Mean score of the data control class

$\sum x_1^2$ = Sum of square derivation of experiment class

$\sum x_2^2$ = Sum of square derivation of control class

N_1 = Samples of students of experiment class

N_2 = Samples of students of control class

Df = degree of freedom