CHAPTER III

RESEARCH METHODOLOGY

A. Place and Time research

The research took place in SMP NEGRI 1 KARANGTANJUNG JL. RAYA SERANG KM 3 PANDEGLANG BANTEN because found a problem of low, trouble and monotonous in learning English in academic year 2019/2020, to conducted at eight grade.

B. Method of the research

A quantitative method was implemented with an experimental research design in this study. The quantitative method is only concerned with determining how the situation in the field is and reporting what occurred. According to Frankel and Wallen, basic identically experimental research is comfortable and unpretentious; attempt anything occurs.[1] In the field of education, the quasi-experimental design is commonly used. The method does not use random assignments as assignments for the research subjects or students, but it does use questionnaire and interview as research instruments. The study samples consisted of entire students from two classes, one of which served as the experimental class, with the

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[1] Wallen, J. R. (2009). *How to Design and Evaluate Study in Education*; Seventh Edition. New York: McGraw Hill, 99.

STAD method being used as the treatment. The other served as the control class, with the students not obtaining the treatment.

The STAD method was used as an independent variable in this analysis, and the dependent variable was students' motivation on learning English. Therefore, the researcher compared the experimental class to the control class. The research goal was to see whether the STAD method substantially impacted students' motivation on learning English.

C. Participant and sample.

The Subject in this research at eight grade of SMPN 1 KARANGTANJUNG. There are much classes. From that the researcher will take only two class that is eight grade of B and C. In every class there are 28 students. Eight C as the experimental class and eight B as the control class.

D. The Technique of Collecting Data

The technique of analysis data in this research quantitative data through uses questionnaire and interview. The questionnaire were given after treatment of study use STAD method and interview before treatment of study use STAD method. The questionnaire and interview were given ten questions, the questionnaire such as

response about teaching learning process, the result of use STAD method to be effective student motivation on learning English and interview such response about teaching learning process before use STAD method to be effective student motivation on learning English. Both of the class, experiment class and control class, were given the same questions. Each questionnaire scored, SA:5, A:4, N:3, D:2, SD:1. SA: Strong Agree, A: Agree, N: Neutral, D: Disagree, SD: Strong Disagree.

E. The Technique of Analyzing Data

Before analyze the data, it is necessary to calculate the data into the statistic calculation. The writer used t_{test} formula to calculate the data. The two classes were compared to the independent variable the experiment class and control class.

The steps for statistic analyze that are:

1. Determining mean of variable X1 with formula:

$M_1 = \frac{\sum X1}{N1}$

2. Determining mean of variable X2 with formula:

$M_2 = \frac{\sum X1}{N1}$

3. Determining derivation score variable X1 with formula:

$X_1= X_1-M_1$

4. Determining derivation score variable X2 with formula:

$X_2= X_2-M_2$

After collecting the data from questionnaire and interview, the researcher analyze it by using statistic calculation of t-test by using fisher formula with significance degree 5% and 1%. The formula is as follow;

$$t= \frac{M1-M2}{\sqrt{\left(\frac{X_1^2+\sum X_1^2}{N1+N2-2}\right)\left(\frac{N1+N2}{N1.N2}\right)}}$$

Notes:

M_1= Mean score of the experiment class

M_2= Mean score of the control class

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

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

N_1= Number of students experiment class

N_2= Number of students control class

2= Constant number

df= Degree of Freedom (df= $N_1 + N_2$ -2)

F. **Statistical Hypothesis**

The statistical hypothesis of this research can be seen as the following:

H_a: There is significant difference in using STAD effective in students' motivation on learning English.

H_o: There is no significant difference in using STAD effective in students' motivation on learning English.

H_a: $\mu_1 = \mu_2$

H_o: $\mu \neq \mu_2$

Then criteria used as follow:

1. If t_o (t-test) > t_t (t-table) in significant degree of 0.01 and 0,05, the null hypothesis (H_o) is rejected. It means using STAD method is effective in students' motivation on learning English.

2. If t_o (t-test) < t_t (t-table) in significant degree of 0.01 and 0,05, the null hypothesis (H_o) is accepted and the alternative hypothesis (H_a) is rejected. It means that the using of STAD method is not effective in students' motivation on learning English.

LIST OF QUESTIONNEIR

Name:

Class:

1. Saya suka berbicara dalam bahasa Inggris

2. Saya sangat senang mengikuti pelajaran bahasa Inggris

3. Pembelajaran bahasa Inggris yang diberikan guru saya sangat menarik.

4. Guru sangat membosankan saat menerangkan materi

5. Guru sangat sabar menghadapi murid yang kurang disiplin sewaktu belajar mengajar.

6. Guru saya sering memberikan penghargaan ketika mengajar bahasa Inggris.

7. Saya merasa puas belajar bahasa Inggris dengan guru dikelas.

8. Guru selalu melatih murid unutuk berbicara bahasa Inggris saat belajar mengajar berlangsung.

9. Guru selalu memberi arahan yang baik agar kita senang belajar bahasa Inggris.

10. Saya lebih mudah memahami pelajaran bahasa Inggris ketika guru sedang menjelaskan materi.

LIST OF INTERVIEW QUESTION

Name:

Class:

1. Apakah kamu suka pelajaran bahasa Inggris? berikan alasannya!

2. Tehnik belajar yang seperti apa yg kamu suka sewaktu belajar bahasa Inggris?

3. Apakah kamu suka berbicara bahasa Inggris? berikan alasannya!

4. Apa pendapat kamu tentang pelajaran bahasa Inggris?

5. Apa kesulitan kamu dalam belajar bahasa Inggris?

6. Apa kamu setuju pelajaran bahasa Inggris adalah pelajaran yang sulit?

7. Apa kamu merasa takut saat ditunjuk untuk menjawab pertanyaan bahasa Inggris Sewaktu belajar dikelas?

8. Kapan kamu merasa kesulitan saat belajar bahasa Inggris?

9. Apa kamu merasa takut untuk bertanya kepada guru bahasa Inggrismu saat kamu mendapatkan kesulitan saat belajar bahasa Inggris dikelas?

10. Apakah kamu punya keinginan untuk bisa belajar dan berbicara bahasa Inggris dengan lancar?