CHAPTER III
METHODOLOGY OF RESEARCH

A. Method of The Research

The purpose of this chapter is to explain the population, sampling, observation, Questionnaire, and test as an instruction. Additionally, this chapter also interested to describe the procedure and method use for analyzing the data from students who are studying at the second grade SMK PGRI LABUAN.

In this case the writer choose an experimental research. Experimental designed to collect data in such a way that treats to the reliability and validity of the research minimized.\(^1\) The writer is using the experimental research to know the real data that got from the respondent. Experiment are carry out in or relationship between two variable. Experiment method used design to collect data in such a way that threats to the reliability and validity. In writing this paper, there are three types of experiment. They are pre-experiment, quasi experiment, and true-experiment.

In this research, the researcher uses the quasi experiment according to David Nunan on his book of research methods in language learning said that a quasi-experiment has both pre and post-test of experimental and control groups but no random assignment of subject.\(^2\) And in this research, the researcher uses the quantitative design to achieve the purpose. And design to conduct his study because the

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\(^1\) David Nunan, *Research Method In Language Learning* (New York: Combridge University Pres, 1992), 47.

The researcher wanted to know movie akeelah and the bee in improving students’ speaking.

The researcher conducted two meetings, first time meeting for introduction, pre-test and using usual method, continued by post-test to know if there was any increase in students’ speaking without using movie akeelah and the bee strategies and then the first class was the control class. Second time meeting for introduction, pre-test and the treatment of using movie akeelah and the bee strategies and continued with post-test to know if there was any increase in students speaking after using movie akeelah and the bee strategies, identified as an experimental class.

B. Place and Time

In this case the writer chose the place for this experimental at senior high school of SMK PGRI LABUAN which is located at Komplek Griya Asri Ds. Sukamaju. Kecamatan Labuan - Kabupaten Pandeglang-Banten. Time for the researcher to do the experimental was February 2017. In the research the writer would find out the effectiveness “akeelah and the bee” movie in improving students’ speaking.

C. Population and Sample

1) Population

According to Encyclopedia of Educational Evaluation as cited by Arikunto, population is a set (or collection) of all elements possessing one or more attributes of interest.3

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The population of research is all students at MTS Al-Barkah Pandeglang. In this research, the research chooses the junior high school as the object of the research. In this school there are 4 four classes of second grade. There are classes (2A, 2B) each class has 30 student (2C, 2D) each class has 32 student. Total all of students is second 124 students.

2) Sampling

Sampling is collecting data with the small amount of population that tested at the research. According to Nunan, simple is a subset of individual or cases from within the population.4

In talking sample the researcher use no random technique, because its one of characteristic from quasi experiment. Researcher chooses two classes that considered has 60 students at 2A and 2B at SMK PGRI LABUAN. If subject less than 100 it will whole the subject as simple. The, if total its subject is more may be take 10-15% and 20-30%. Because the subject second grade at MTS Al-Barkah more than 200 subject. The researcher take 30% as sample of researcher or 60 students to be researcher. The researcher chooses the 2A as experiment class and 2B as control class. Each class has 30 students.

3) Research instrument

A speaking test, which serves as the research instrument, is used to find out using movie akeelah and the bee to improve students speaking skill. In addition questionnaire that also

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4 David Nunan, Research Method in Language Learning (New York: Combridge University Pres, 1992), 47.
serves as the research instrument is used to find out the strength and weakness to watching movie akeelah and the bee. In detail research instrument can be explained as follow.

a. Pre-test

The test is inform as oral test and the writer carry out this test with the assistance of the examiner. The students make description of the previous movie they have watched before, then retell the story in front of class.

b. Post-test

The procedure of post-test is almost similar with the pre-test, the student must make summary of akeelah and the bee movie, then retell the story in front of class. The type test is oral test. The writer will assess of the test by oral test rating sheet. There are five components to measure score speaking. The components are:

Table 3.1
The Asses of Speaking

<table>
<thead>
<tr>
<th>Weight table scale</th>
<th>Aspects</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Vocabulary</td>
<td>Grammar</td>
<td>Comprehension</td>
<td>Accent</td>
<td>Fluency</td>
</tr>
<tr>
<td>1</td>
<td>4</td>
<td>6</td>
<td>4</td>
<td>0</td>
<td>2</td>
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<td>24</td>
<td>36</td>
<td>23</td>
<td>4</td>
<td>12</td>
</tr>
</tbody>
</table>

4) **The Technique Of Data Collection**

For collecting the data in this research, the writer use follow:

a. **Observation**

The writer do to the observation by interviewing the English teacher and attending the English teaching learning process to observe directly in class, how the teacher use English as one of teaching speaking activities.

b. **Questionnaire**

The questionnaire was given to students to obtain information related to the student’s feeling, interest and motivation of student before and after the action. The questionnaire was also use to reveal the effectiveness of using movie media in teaching speaking skill, and the difficulties experience by the student when speaking though medium of the movie.

D. **The Technique of Data Analyzing**

The writer use quantification technique when collection the data. The result of data from pre-test and post-test speaking in oral testing will account by the writer how much the comparing both them in percentage form. Quantitative data can be analyzed and displayed in many different ways. The writer analyzed the data form of:

a. Investigating students’ worksheet give describe score in table.

b. Determine mean of variable X1 with formula:

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\[ M_1 = \frac{\sum x_1}{N_1} \]

c. Determine mean of variable X with formula:

\[ M_2 = \frac{\sum x_2}{N_2} \]

d. Determine deviation score variable \( X_1 \) with formula:

\[ X_1 = x_1 - M_1 \]

e. Analyzing the result by using calculation of \( t \)-test as follow:

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t = \frac{M_X - M_Y}{\sqrt{\left( \sum X^2 + \sum Y^2 \right) (1 + 1) \left( \frac{1}{N_1} + \frac{1}{N_2} \right)}} \]

\[
= \sqrt{\frac{N_1 + N_2}{N_1 N_2}}
\]

Note:

- \( M_x \) : The average score of experimental class
- \( M_y \) : The average score of control class
- \( X_1 \) : Sum of the squared deviation score of experiment class
- \( X_2 \) : Sum of the squared deviation score of control class
- \( N_1 \) : The number of students of experimental class
- \( N_2 \) : The number of students of control class
- \( 2 \) : Constant Number