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CHAPTER III

METHOD OF THE RESEARCH

A. Research Design

The design of this research is an experimental research. According to Gay, (2000 p.367), experimental research is the only type of the research that can test hypothesis to establish cause and effect relationship. Creswell stated that there are three kinds of experimental design; true, quasi, and pre-experimental. This research is a quasi experimental research. Quasi experimental is the situation occur in which researcher needs to used intact group. The writer applied the pre and post test design approach to this research. It was focused on nonequivalent control group design. Both of the groups took pretest and post test and only experimental group got the treatment.

This research consisted of two variables: Independent variable (variable X) that refers to the effect of Instant Assessment strategy and dependent variable (variable Y) that refers to speaking ability. Experimental involves making a change in the value of one variable to another variable. According to Creswell (2012, p.310), the research design can be illustrated as follows:

Table III.I
Research Design

Class	Pre-test	Treatment	Post-test
C	T1	✓	T2
E	T1	X	T2

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A : experimental group

B : control group

T1 : pre-test to experimental and control group

T2 : post-test to experimental and control group

✓ : receiving particular treatment

X : without particular treatment

Furthermore, the researcher wanted to find out the effect of instant assessment strategy on students' speaking ability.

B. Time and Location of the Research

The research was conducted from August, to October 2017 at state Junior High School 1 Reteh Pulau Kijang. It is located on Jl. SMP Penunjang kecamatan Reteh .

C. Subject and Object of the Research

The subject of this research was the eighth grade students at Junior High School 1 Reteh Pulau Kijang in 2016/2017 academic year, while the object of this research was the effect of Instant Assessment strategy on students' speaking ability.

D. Population and Sample of the Research

The population of this research was the eighth grade students at Junior High School 1 Reteh Pulau Kijang. The population consisted of 5 classes, the detail number of students at Junior High School 1 Reteh was 118 students. The sample of the research were class VIII 3 as an experimental class and VIII

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5 as a control class. These classes were decided by using cluster-random sampling. The classes consisted of 44 students in which class VIII 3 consisted of 24 students and VIII 5 consisted of 20 students.

E. Technique of Collecting Data

In order to get the data that are needed to support this research, the writer used oral production test to gain the information about speaking ability from the students by giving statements to be considered. The students were asked to consider the statement given by the teacher. Then, the students were asked to share their ideas based on considering statement to measure their speaking ability. Reliability and validity were used to measure the test. The writer used 2 tests in this research, pre-test and post test. Pre-test was given to the students before the students were taught by using Instant Assessment strategy. It was used to measure the students' speaking ability. Post test was given to the students after giving the treatment of the technique to experimental class. The post test was applied to know the development of students' speaking ability after practicing this strategy.

F. Validity and Reliability of the Instrument

The test for students' speaking ability has to be valid and reliable. According to Hughes (2003, p.26), the test should be valid if it measures accurately what it is intended to measure. There are three types of validity: content validity, criterion validity, and construct validity. In this research, writer used content validity to know the validity of speaking ability test.

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According to brown (2003, p.22), content validity is partly a matter of determining if the content that the instrument contains is an adequate sample the domain of content it is supposed to represent. Thus, the test has been given based on the material studied by the students. The material was taken from the syllabus of the eighth grade at Junior High School 1 Reteh Pulau Kijang.

There are five ways to obtain reliability. There are test raters, parallel forms, internal consistency, inter rater and intra rater. In this research, to know the reliability of the speaking test, the writer used inter rater reliability because the writer had two raters in order to score the students' speaking ability.

G. Technique of Data Analysis

1. Normality and Homogenity of the Test

Before analyzing the data by using t-test formula, the writer had to find out the normality test of the data. The normality test of the data was analyzed by using Kolomogorov-Smirnov technique with SPSS 16 version.

Ho : Data are normally distributed

Ha : Data are abnormally distributed

If probability (sig) > 0.05, Ho is accepted

If probability (sig) < 0.05 Ha is rejected

Then, the writer also had to find out the homogenity of the test. To analyze the homogeneity was by comparing sig. in based on trimmed mean with 0.05.

Sig > 0.05 the data are homogenous

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Sig < 0.05 the data are not homogenous

2. Analysis Data of Independent Sample T-test

In analyzing data, the writer used the score of Pre-test and post-test of the students from both of experimental class and control class. in order to find out whether there is or not a significant effect of using Instant Assessment strategy on students' speaking ability. The data were analyzed by using independent T-test.

To identify the level of significant effect of using instant assessment strategy on students' speaking ability at Junior High School 1 Reteh, it was calculated by using eta squared formula :

$$\text{Eta Squared} = \frac{t^2}{t^2+(N1+N2-2)}$$

Where : t : value of the table

N1 : number of students of first group

N2 : number of students of second group.