# CHAPTER III

# METHODOLOGY

This study aimed at investigating whether there is any difference on students' English speaking achievement between those taught by native English teacher and non-native English teacher. This chapter presents the method used to collect data of the study. The research methods includes the research design, setting of the study, population and sample, research variable, data collection technique, research instrument and data analysis.

## III.1. Research design

Research design is 'a plan or a concept made by the researcher for the plan of action that will be conducted'.[29]

This research used statistic comparative with quantitative approach. A study could be categorized as quantitative method if it uses to analyze certain population or sample, and has the aim to examine the hypothesis. Moreover, it tends to analyze the data deductively.

In this research the data were taken from the classes which is taught by native speaker and for the comparison taken from the class that taught by non-native speaker.

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29 Suharsimi Arikunto, '*prosedur penelitian suatu pendekatan praktik*', (Jakarta: Rineka cipta,2006), p.51

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## III.2. Setting of The Study

This study was conducted at SMA Walisongo in the academic year 2010/2011. The school is located on Jl. Cempaka Putih No.08 , Gempol, Pasuruan . SMA Walisongo was selected because it is one of favorite private senior high school s in Pasuruan district. The high number of enrollment to this school each year could be an indication that has something interesting

As has been stated earlier, this school has two native speakers (Native English and native Arabic teachers) in order to facilitate the students to be able to communicate with the native speakers of English and Arabic.

## III.3. Population and Sample

### III.3.1. Population

Population is 'a group of elements or cases, whether individuals, object or events that conform to specific criteria and to which we intend to generalize the result of the research'.[30]

The population of this research was the tenth grade students in academic year 2010/2011 at SMA Walisongo, Gempol - Pasuruan. They were selected because one class was taught by native English teacher while the other taught by non-native English teacher. This population suits with the purpose of the research.

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[30] Sugiyono, *"Metode Penelitian Kuantitatif Kualitatif dan R&D"*, (Bandung: Alfabcta,2010), p. 80

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### III.3.2. Sample

Sample is 'the group of elements, or a single element, from which data are obtained'.[31]

In SMA Walisongo, there are six classes of the tenth grade. Class X-6 was favorite class, taught by native English speaker and selected as the sample of the research. There were 18 students in this class.

For the comparison class X-3 with 18 students were selected. This class had better ability in English based on the report book and daily score of the students. Then it was compared to other classes taught by non-native English teacher. The teacher also recommended this class.

Purposive sampling was used as a technique to decide the sample in this study. Purposive sampling is 'the selection of particularly informative or useful subject'.[32] It was done because the researcher found certain information from the teacher about the sample that is X-3.

## III.4. Research variable

Variable is 'the object of the research or the focus of the study'.[33] There were two variables in the study, the independent and dependent variables.

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[31] Ibid. p.81
[32] Ibid. p.73
[33] Ibid. suharsimi, " *Prosedur Penelitian* " ( Jakarta: Rineka Cipta, 2002), p.93

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### III.4.1. Independent Variable

Independent variable is a variable whose variable is 'selected, manipulated, and measured for investigation'.[34] The independent variable of this study the was the English teacher (native speaker and non-native speaker)

### III.4.2. Dependent Variable

Dependent variable is 'a variable affected by independent variable'.[35] In this research, the students' English achievement is the dependent variable.

## III.5. *Techniques of Data Collection*

To obtain the valid data, some techniques of data collection were applied.

### III.5.1. Documentation

Documentation is 'a technique to collect data through note, transcript, book, etc'[36].

This technique used to know students' English achievement, which is taken from the students' second semester report of the tenth grade, which is taught by native and non-native. In addition, the result

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[34] Ibid. 94
[35] Ibid. p.94
[36] Ibid. p.206

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of the report included speaking, listening, writing and reading skill from daily score.

### III.5.2. Test

Test was other data collection technique in this research. Test was done by the school it self during the second semester that include test of speaking skill, reading skill, listening skill and writing skill. Than the result was written in the repot book.

## III.6. Research instrument

An instrument is' a device to get the data'.[37] To collect data for this research, the following instrument were used.

### III.6.1. Test

Test is 'a method of measuring person ability, knowledge or a performance in a given domain'[38]. In this study test is the most important instrument because from the test students' English achievement taught by native and non-native could be measured. The researcher used this instrument in order to know the students' English achievement between taught by native and non-native speaker.

In this research, the test was done based on the schedule of school in conducting the test included mid-test, daily test and final test.

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[37] Ibid, p. 126

[38] Louis Cohen, "*Research Method in Education*" (London and New York: Rutledge, 2007),p. 414

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### III.6.2. Documentation

Documentation in this research used as the instrument in collecting the data trough the score of students' second semester report in the tenth grade , which is including four skills inside.

## III.7. Data Analysis

Data analysis is the process of systematically searching and arranging the result of the observation, recording, and other materials. It was done to make easier in understanding and interpreting the data[39].

Data in this study is quantitative data that is test score. Data analysis that is used to analyze the sore is statistics analysis by using **t-test.**

The t-test is used to discover whether there are statistically significant differences between the means of two groups ,In order to know the comparison between native speaker and non-native speaker teacher on students' English achievement .

The first steps was making tabulation data of the students' score in both classes those who taught by native speaker and non-native speaker.

Next step was found the mean score of both classes using this formula:

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[39] Sugiyono, *"Metode Penelitian Kuantitatif Kualitatif dan R&D"*, (Bandung: Alfabeta,2010), p. 80

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Mean : $\frac{\sum Fx}{N}$

*Where`:*

$\sum Fx$ = *total of the test*

N = Total of students taking the test.

After collecting the mean score of both classes, the next step was finding out the variance sample in both classes using these formulas.

*Variance sample* :

$$S^2 = \frac{\sum (x - \bar{x})^2}{N - 1}$$

Where :

$S^2$ = variance sample

$(x - \bar{x})$ = Score minus mean

N = Number of students taking the test

After finding the variance sample, then the result was calculated by using t-test to know whether there is the difference between those taught by native speaker and non-native speaker on students' English achievement. This formula was used.

$$t = \frac{\overline{X_1} - \overline{X_2}}{\sqrt{\frac{S_1^2}{N_1} + \frac{S_2^2}{N_2}}}$$

*Where* :

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$\overline{X_1} - \overline{X_2}$ = Mean score of native's class minus mean score of non-native's class

$S^2$ = variance sample

N = Number of students taking the test

The last step was finding the t-table.

Where :

df = N1+N2-2

Sign = 0.05

And got the result 2.032

**III.8. Hypothesis Testing**

This study has consisted of two hypotheses, which are:

Ho = There is no significant difference between native speaker and non-native speaker teacher on students' English achievement at the tenth grade of SMA Walisongo, Gempol - pasuruan

Ha = There is significant difference between native speaker and non-native speaker teacher on students' English achievement at the tenth grade of SMA Walisongo, Gempol - pasuruan

Where the criterions were

Ho accepted if t-value < t-table

Ha accepted if t-value > t-table

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