

CHAPTER III

METHOD OF RESEARCH

A. Research Design

The design of this research is descriptive qualitative and quantitative. The researcher observes directly to collect the data which are needed and related to the problem statement, interviews and tests the respondents. The researcher also uses a set of documents for the research location to gain more information qualitatively and quantitatively to know the students' achievement in English vocabulary at SMK Bina Banua Banjarmasin.

B. Research Setting

This research was conducted at SMK Bina Banua Banjarmasin. The research was conducted at the end of August, this research spent the time for about two months. The researcher chose this place as the research location because of consideration that the students of the eleventh grade have a problem with their English vocabulary, so the researcher wanted to know the students' achievement in English vocabulary.

C. Population and Sample of the Research

1. Population of Research

The population of this research is all of the eleventh graders of SMK Bina Banua, which consist of 195 students. The total number of population can be seen in the following table :

Table 3.1. The Population Of The Eleventh Graders of SMK Bina Banua Banjarmasin.

No	Classes	Sex		Total
		Male	Female	
1	Accounting	9	24	32
2	Broadcasting	15	21	35
3	Business Travel Destinations	6	24	29
4	Computer Network	27	12	38
5	Graph	18	5	23
6	Marketing	22	16	38
Total				195

2. Sample of the Research

The researcher takes the sample of population by using proportional random sampling for this research. According to Creswell (2009), random sampling is a procedure in quantitative research for selecting participants. The researcher can use his knowledge of the population to judge whether or not a particular sample has already been determined the population.

According to Arikunto (2010, p.183), if the population is more than 100 , the sample is taken between 10-15 % and 20-25 % or more than 25 %.

In line with the explanation above, the researcher decides to take 30% of total students in the eleventh grade students . There are six classes of the eleventh grade students that consist of 195 students, so the researcher takes 61 students in this research with different amount of students for 6 classes. In this research, the technique used in taking sample is proportional random sampling technique.

To know more about that, it can be seen in the following table :

Table 3.2 Sample of the eleventh graders of SMK Bina Banua Banjarmasin.

Classes	Number of Students	Sample
Accounting	32	10
Broadcasting	35	11
Business Travel Destinations	29	9
Computer Network	38	12
Graph	23	7
Marketing	38	12
Total	195	61

D. Research Instrument and Design of Measurement

The instrument that the researcher uses in this research are written test, observation guidelines, list of question, and documentary. The researcher will know the students' achievement in English vocabulary by giving them multiple choice test, Multiple choice consists of 25 questions that the students choose the right answer in available answer collection. Every right answer will be scored 4 and the wrong answer will be scored 0. The total score for the right answer is 100.

The Mean of the score is got by the pattern below (Murdan, 2012, p.47) :

$$M = \frac{\sum X}{N}$$

M = Mean score

$\sum X$ = Accumulative Score

N = Number of respondentt

The students' score will be catagorized into five levels based on Usman and Setiawati (2001, p.136) as follows:

Table 3.3 Interpretation Result of Written Test

No.	Score	Category
1.	80- 100	Excellent
2.	60 - <80	Good
3.	40 - <60	Sufficient
4.	20 - <40	Poor
5.	0 - <20	Very Poor

The result of the written test is analyzed and concluded based on the steps below:

1. Each students' answer will be calculated by using the formula above.
2. Calculating the students' answers
3. The result will be arranged into tables.

E. Techniques of Data Collecting

The techniques of data collection that will be used in this study are Observation, Interview, Written Test, and Documentary.

1. Observation

This is used to obtain the information about the students' ability in vocabulary aspect in classes.

2. Interview

This is used to add some information about the students' achievement from the sources of data. The sources of data are the eleventh grade students and the English teachers. English teachers are 2 persons. Mr. S who teaches Accounting class, Computer Network class, Graphics Preparation class, and Marketing class. Mrs. SK teaches Tourism class and Broadcasting class.

3. Written Test

The Written Test used in this research is vocabulary test that consists of 25 multiple choice questions to collect the data about the students' achievement, the items of the test are taken based on the materials that they have learnt in that school.

4. Documentary

This technique is aimed at looking for the data related to this research and for all written reports or document such as description about research location, the teacher, and etc.

F. Techniques of Data Processing and Data Analysis

1. Techniques of data processing

There are five techniques that used by the writer in processing the data, they are :

a. Collecting

This technique is used to collect the data related to the students' achievement in vocabulary.

b. Editing

This technique is used to examine all of the collected data to make sure whether they are already complete or not. The editing also includes selecting the needed data from those which are available.

c. Scoring

This technique is used to measure the students in getting the result of the written test.

d. Tabulating

This technique is used to arrange and put certain data into table

e. Data Interpretation

All of the data collected then clarified into the explanations without changing the meaning. The data will be interpreted by using researcher own sentences that are easier the reader to understand.

2. Data Analysis

After data are collected, then the researcher analyzes the data by using descriptive-qualitative and quantitative, so that all data can be used to answer the probing questions. The data are analyzed to report the students' achievement in English vocabulary for vocational school of different majors at the eleventh grade at SMK Bina Banua Banjarmasin through description.