

## **CHAPTER III**

### **RESEARCH METHOD**

#### **A. Research Design**

This chapter illustrates methodology used in this research. It deals with the research design, data instrument, data collection and data analysis. This research uses a descriptive quantitative method. It means data in this research are in the form of number, words and sentences to answer the research questions.

Descriptive research is defined as a design to obtain information concerning the current status of phenomenon and to determine the natural situation as it exists at the time of study. In this research, the researcher describes the current status of phenomenon focusing on students' ability in listening comprehension through answering completion and multiple choice test items at the eleventh grade of SMAN 7 Banjarmasin.

#### **B. Research Setting**

The researcher will conduct data on February 15<sup>th</sup> until April 15<sup>th</sup> 2017. The location of this research is located at Jalan Dharma Praja V no. 47 Banjarmasin. This place is chosen because the researcher wants to know whether or not the school really has students who have also good ability in listening comprehension in English

language. The researcher conducts the data at the eleventh grade because their ability is in intermediate level.

### **C. Population and Sample**

Population of this research is students of senior high school which have many students. To get better understanding about population and sample of the research both will be discussed here.

#### **1. Population**

According to Sugiono (2008:116) said, population is a group of subject which has the same characteristic. It is determined to be analyzed and calculated. Population of research is students at the eleventh grade of SMAN 7 Banjarmasin, they are 312 students.

Table 3.1.Total of Population Research

| Class     | Male | Female | Total of the Students |
|-----------|------|--------|-----------------------|
| XI IPS 1  | 10   | 13     | 23                    |
| XI IPS 2  | 11   | 20     | 31                    |
| XI MIPA 1 | 14   | 23     | 37                    |
| XI MIPA 2 | 14   | 23     | 37                    |
| XI MIPA 3 | 13   | 24     | 37                    |
| XI MIPA 4 | 12   | 25     | 37                    |
| XI MIPA 5 | 11   | 26     | 37                    |
| XI MIPA 6 | 14   | 23     | 37                    |
| XI MIPA 7 | 17   | 19     | 36                    |
| Total     | 116  | 196    | 312 Students          |

Number of population the research is 312 students which are students at the eleventh grade of SMAN 7 Banjarmasin. It consists of two social classes and seven science classes. There are 116 male students and 190 female students, so the number of students is 312 students.

## 2. Sample

Sample is a part of characteristics which had by the population. The technique of sampling in this research uses random sampling. The researcher chooses the sample of data randomly from 25 % from number of students at the eleventh grade of SMAN 7 Banjarmasin (Arikunto: 2008). So total number of research sample is 90 students.

Table 3.2 Total Sample of Research

| Class     | Male | Female | Total of the Students |
|-----------|------|--------|-----------------------|
| XI IPS 1  | 5    | 5      | 10                    |
| XI IPS 2  | 5    | 5      | 10                    |
| XI MIPA 1 | 5    | 5      | 10                    |
| XI MIPA 2 | 5    | 5      | 10                    |
| XI MIPA 3 | 5    | 5      | 10                    |
| XI MIPA 4 | 5    | 5      | 10                    |
| XI MIPA 5 | 5    | 5      | 10                    |
| XI MIPA 6 | 5    | 5      | 10                    |
| XI MIPA 7 | 5    | 5      | 10                    |
| Total     | 45   | 45     | 90 Students           |

#### **D. Source of Data**

The data is taken from the source of data. It follow as:

1. Participants : All students at the eleventh grade of SMAN 7 Banjarmasin.  
The students will take a test and give information about their listening comprehension ability through questionnaire.
2. Informant : English teacher in SMAN 7 Banjarmasin
3. Books, internet and electronic journals: These sources are used to explanation theoretical review about this study.

#### **E. Research Instrument**

The researcher uses some instruments to support this research. There are some techniques that are applied and objective of the research instrument in this research. There were two kinds of the research instruments used in this study. They are:

Table 3.3 Research Instrument Lists

| No. | Instruments   | Objective of the research instruments                                                                                                                                   |
|-----|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Questionnaire | To investigate students' personal ability after they did the test                                                                                                       |
| 2   | Test          | To find out students' ability into scoring five levels (based on book of Sudijono, 2003, p. 372) and writing common errors in listening comprehension through answering |

|  |  |                                            |
|--|--|--------------------------------------------|
|  |  | completion and multiple choice test items. |
|--|--|--------------------------------------------|

## **F. Data Collection Procedure**

The researcher uses some procedures and techniques to apply research instrument in process collecting data. The procedures which consist of:

### **1. Questionnaire**

This technique is used to get data about the students' respond to learning activities listening comprehension. Students are asked to put their answer on as scale of frequency ranging from never to always. The questionnaire consists of some questions about their strategies especially learn is listening comprehension.

### **2. Testing**

The students are tested to answer the statement of problems of this research. This is used to collect data which related to students' ability in listening comprehension through answering completion and multiple choice test items. This test will be divided into two kinds of assessments (completion and multiple choice). There are 40 test items and the test applied in this research is written test.

## **G. Data Analysis**

The researcher will analyze the data after the data has been collected and interpreted and the researcher analyzes the data by using descriptive quantitative

approach. After doing test, the researcher will analyze students' common error in their test so the researcher will know the most common errors from the result.

In this step, the researcher makes conclusion by using  $Z_{\text{score}}$  formula. There are some steps to process the data until the researcher gets the answer of the statement of problems. The researcher counts the mean score of each test items by using the formula:

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

Mean of the score is got by the pattern below:

$M$  = mean score

$\sum x$  = Accumulative score

$N$  = Number of respondents

## **H. Design of Measurement**

Design of measurement is intended to know the students' ability in listening comprehension through completion and multiple choice test items at the eleventh grade of SMAN 7 Banjarmasin. In this research, the students will answer 40 items of written test while listening to audio in 40 minutes.

The highest score is 100 and the lowest score is 0. There are 40 question items. It consists of three sections: section 1 consists of questions number 1-10, section 2 consists of questions number 11-20 and section 3 consists of 21-40. If they

get true answer every questions in section I and II (completion), it is 3 score. If they get false answer, it is 0 score. If they get true answer in section III (multiple choice), it is 2 score and if they get false answer, it is 0 score. So, the total score for completion questions is 60 score and total score for multiple choice questions is 40 score. The students' score will be categorized into five levels based on book of Sudijono, 2003, p. 372 as follows:

|          |             |
|----------|-------------|
| 81 - 100 | : Excellent |
| 61 - <80 | : Good      |
| 41- <60  | : Fair      |
| 21 - <40 | : Poor      |
| 0 - <20  | : Very Poor |