

CHAPTER III

RESEARCH METHODOLOGY

In this chapter will be explained about the methodology of research in conducting this research which includes the point of research design, the subject of the research, the instruments in collecting the data, and the analysis technique.

A. Research Design

Research is an activity to obtain the truth of scientific knowledge through predetermined procedures to reach the truth. According to Mardalis research is the technical way done in the research process, while the study is interpreted as an effort in the field of science run to obtain the fact and principles consciously and systematically to bring of truth.³⁴ In the other word method is a technical way done in the research process. Systematically using the scientific method, a design or plan of study. To achieve systematic process, it is necessary the ways in the research justify scientifically.

This research uses quasi experimental research. Experimental research is the way to find a causal relationship (relationship clause) between the two factors, example the research gives a traditional and treatment techniques. It is uses to reduce or set aside other factors that interfere. Experiments are always done with

³⁴ Mardalis, *Metode Penelitian Suatu Pendekatan Proposal*, Jakarta: Bumi Aksara, 1995, p. 24

The writer give pretest to the students to know their ability before the treatment is given and compare the ability of two groups. Ideally in good pretest, the result should have significant difference between both groups.³⁷ The treatments or independent variable (X) will be applied to the experimental group. Posttest is given to both groups. Post test is applied to know students ability in reading of the two groups. The score of both groups is compared with the improvements.

B. Setting of the Study

The setting of this study will be conducted at MA NEGERI 1 KOTA MOJOKERTO in the academic 2011/1012. This is located on Jl. Cinde Baru VIII, Prajurit Kulon, Mojokerto. The researcher chooses MA NEGERI 1 KOTA as the setting of the study because this is a new school, it is just built at year 2000. Another reason the school has not applied this technique yet.

C. Hypothesis

This study was consisted of two hypotheses, they are:

Ho = There is no significant difference in teaching reading by using small group task technique at the eleventh grade of MA Negeri Kota Mojokerto.

³⁷ Sugiyono, *Metode Penelitian Kuantitatif Kualitatif dan R&D*, Bandung: Alfabeta, 2010, p.76

Ha = There is a significant difference between the mean of the improvement teaching reading by using small group and traditional technique at the eleventh grade at MA Negeri 1 Kota Mojokerto.

Where the criteria are

Ho accepted if $t\text{-value} < t\text{-table}$

Ha accepted if $t\text{-value} > t\text{-table}$

D. Population and Sample

1. Population

Population is a group of elements or cases, whether individuals, object or events that conform to specific criteria in which we intend to generalize the result of the research³⁸

The population of this research is the eleventh grade of MA NEGERI 1 KOTA MOJOKERTO, Prajurit Kulon, Mojokerto. There are five classes. Each class consists of 36 students, so the total of population is about 180 students.

2. Sample

Sample is the group of elements, or a single element from which the data are obtained.³⁹ The samples of this research are two classes (XI IS 1 and XI IA 1) which are selected based on classification made by the school. Class XI

³⁸ Sugiyono, *Op cit.* p.80

³⁹ Sugiyono, Op cit. p.81

a. Pretest

b. Posttest

3. Data Analysis Technique

After collecting the data of pretest and post test from the experimental group and control group, the researcher measure the score differences from pretest and post test of experimental group and control group by the statistical calculation. In this study, the researcher uses t – test formula to find out whether the mean differences between them are significant or not. T- Test uses to measure and compare the difference of means score between

Standard of significance⁴⁴ = 0,025

After doing those steps, the researchers conclude the result of the research by testing the hypothesis.

⁴⁴ Suharsimi Arikunto, *Prosedur Penelitian Suatu Pendekatan Praktik*, Rineka Cipta, Jakarta, 2006, p. 310