CHAPTER III RESEARCH METHOD

A. Research Design

The design of this research was an experimental research. According to Gay, Mill, and Airasian (2000: 250) experimental research is the only type of research that can test hypothesis to establish cause and effects relationship. In experimental study, the researcher manipulates at least one independent variable, controls other relevant variables, and observes the effect on one or more dependent variable.

Gay (2000: 251) stated that, an experimental research typically involves a comparison of two groups, which are experimental group and control group. The experimental roup typically receives a treatment under investigation, we she control class usually receives a ferent treatment or is treated as usual.

There are two classes were a in this research. The first was classified as the experimental class (L) and the other one was the control class

(C) Both classes got the same opic the same length of time and the came teacher. The experimental class would be tage by using India. October

Circle Technique and the control class would be fauth to using conventional technique. The treatment tould be give to experimental class about fifth meeting; every meeting researcher gave different topics. At the end of treatment, the researcher gave the students post-test.

In this research, the researcher used posttest only design. The posttest scores are compared to determine the effect of the treatment. According to Sugiyono (2014: 76) this design takes the following form:

Table 3.1
The Table Research Design

Group	Treatment	Post test
Е	X	O1
C		O1

Where:

E = Experimental Group

C = Control Group

X = Teaching by using Inside Outside circle technique

O1 = Students' score of post test

B. Population and Sample

1. Population

Gay (2000:122) state that popular the electing sample of the research can be research and inferences about the performance of the larger gamma (2010:173) says that population is all of subject in research. Besides that, Encyclopedia of Educational

UNEvaluation of AMBO Sugiyono (2013:119) say that population is the generalization

region that consists of object or deject that latve certain qualities and characteristics, defined by the research to learn and then draw conclusion. The population of this research were all of the first year students at SMPN 4 Batang Kapas in the academic year of 2017/2018. There were three classes and the totals of students' class VIII were 92 students. As shown in the table bellows:

Table 2.2
Population of the Students at the eighth grades
At Junior High School 4 Batang Kapas

Class	Amount of students
VIII 1	33
VIII 2	32
VIII 3	27
Amount	92

Source: English Teacher of Junior High School 4 Batang Kapas

2. Sample

According to Gay (2000:121) sampling is the process of reflecting a number of individuals for which a study in such way that the individual represent the large group which it is selected. He also states that a good sample is to the that representative of the position from which is selected. Position of this research was the secondade of Junior High School 4 Batang Researcher selection. WIII A and VIII B of students in Junior High. A Kapas sample. After that, the researcher used coin to determine which one both of experimental and

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Sample of the Students at the eighth grades at

	A nount of the students
VIII- 1	
VIII-2	32
TOTAL	65

C. Place and Time Research

The research was held at Junior High School 4 Batang Kapas. It was started on Mey until July 2018 conducted. The research was conducting on fifth meeting in several weeks by applying Inside Outside Circle technique to saw the effect on students' speaking ability.

D. Instrumentation

Instrument is a tool that is used to measure a data of the research. According to Sugiyono (2014, 92) instrument of research is used to measure a value of the research's variables. In this research, the researcher would be used speaking test in form of interview.

The instrument in this research was oral test. The esearcher used oral test formed into as instrument. The researcher go come question to the students one by the of the class about two cur minutes and then students answer the teacher tion oral. That the researcher records the students speaking. Then, he walues the students pronunciation, vocabulary, grammar, fluency and comprehentio, after that the researcher gave

Uscircularis states again formation of that the rescale gave

While, in scoring the pre test and post test, researcher used the Hughes categories (2003 132), crieria 1-6 in test such as pronunciation, grammar, vocabulary, fluency, and comprehension.

E. Procedures of Research

1. Preparing

The researcher used two classes to collect the data, the researcher taught the students by using inside outside circle technique for experimental class, and conventional technique in control class. The material of the teaching was the same material. In short, the researcher had proposed this procedure:

- a. Determine the research time.
- b. Prepare the lessons plan arranged by the curriculum.
- c. Explain to the students about the planning in learning process.
- d. Prepare t final test.

2. Learning Pr

Teaching Plant for Experimental and Group

	No	EXPERIMENTAL	C JL CLASS
	1	Pre activities (10 minutes)	Pre activities (10 minutes)
		Apperception	Apperception
		-Greeting	-Greeting
U		Praying - Checking surrouts attendance	-Praying - Checking students trendance
		Motivation	Motivation
		-Remanding students about last material.	-Remanding students about last material.
		-Teacher ask some question	- Teacher ask some question
		-Teacher introduces learning	-Teacher introduces learning
		objective to studentents	objective to studentents
		-Teacher writes a topic of the	-Teacher writes a topic of the
		lesson on the Whiteboard	lesson on the Whiteboard

No	EXPERIMENTAL CLASS	CONTROL CLASS
2	Whilst Teaching Exploration (60 minutes)	Whilst Teaching Exploration (60 minutes)
	-Teacher introduces learning objective to students	-Teacher introduces learning objective to students
	-Teacher give example of dialogue	-Teacher give example of dialogue
	-Teacher asks the student to read an example of a dialogue	-Teacher asks the student to read an example of a dialogue.
	Elaboration The teacher gives the students clearly instruction of what students should do in learning	Elaboration The teacher asks to the student to sit in group of 3 member
	-The teacher finites the student into group to the y inside outside circle technic. 1. Divided states into some group. One persons. Stude peairs. On e student from each moves to form one large circle in the class facing outward.	- The teacher ask the students to make dialogue to but asking opinion, giving opinion about smoki
	Teacher remaining student and and tack their parties	BONJO
	(class now stands in two concentric circles)	ANG
	3. After that inside circle students ask question from their question card, outside circle students answer. Inside circle students praise or coach.	1110
	4. Next teacher ask partner switch roles: outside circle students ask, listen, then	

No	EXPERIMENTAL CLASS	CONTROL CLASS
	praise or coach.	
	5. Ask partners trade question cards.	
	6. Ask Inside circle students rotate clockwise to a new partners	
	Now they are ready for the next question.	
	C C	Confirmation
	Confirmation -Teacher asks for the students to	-Finally, the teacher ask the brave students to perform in front of the
	conclude the material.	class.
	-After there is no responses from	-The other may give any response
	other groups, the teacher give any critics or suggestion to make better	such as comment, question and critics.
	at future	-Students ge supporting comments fr he teacher.
3	Post-Activity (20	Property (20 minutes)
	-Teacher gives feedbac	cher gives feedback to the
	teaching process.	teaching process.
	-Teacher and students conclude the	-Teacher and students conclude the
	lesson Ceacher give reflection (asking student response bout	learner give replaction (king student espons about e
	the lesson).	lesson).
	-Close the class	-Close the class

3. After the treatment each of the students yould be tested

After doing the learning process, so the final test was post test about expressing opinion. The test was given to the students of experimental and control classes.

F. Technique of Data Collections

The data was collected by giving speaking test. Data of this research is the students' scores of post-test. The post-test was given at the end of treatment. Speaking test was given to both of control and experimental group for 75 minutes. The researcher gave treatment to experimental group for fifth times by using Inside Outside Circle. The aim to conclude the contribution of inside outside circle technique in teaching and learning process toward students speaking skill. The score of this research is based on students skill in speaking such as pronunciation, vocabulary, grammar, fluency, and comprehension.

G. The Techniqu Data Analysis

The research used the statistical procedures to alyze the scores. It gives a way to the differences of special entered between control group and expectagroup the standard deviation in experimental and control class, the based the formula of t-test.

In this case, T-test means a statistical procedure which is used to determine, whether here was any significant difference be ween the means of the two sets score from control and experiment class. In analyzing the students' test score; there were some epathat would be done before malyzing the different mean by using t-test formula as follows:

 a. This formula was applied to decide mean of students` test score in experimental and control group;

$$\overline{X_1} = \frac{\sum F_1 X_1}{\sum F_1}$$
 (Experimental group)

$$\overline{X_2} = \frac{\sum F_2 X_2}{\sum F_2}$$
 (Control group)

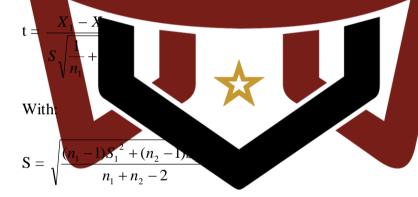
b. This formula was used to decide standard deviation of experimental group;

$$S_1^2 = \frac{n_{1 \sum F1 \times 1^2 (\sum F1 \times 1)^2}}{n_1(n_1 - 1)}$$

This formula was used to decide standard deviation of control group;

$$S_2^2 = \frac{n_1 \sum_{F2} x_2^2 (\sum_{F2} x_2)^2}{n_2 (n_2 - 1)}$$

c. The formula of T-test is as follows (Sudjana: 2005):



Note: X₁ = Mean score of experimental group X₂ = Mean score of control group Standard deviation of experimental group = Standard deviation of control group = Number of experimental group = Number of experimental group

The t-table was employed to see whether there was a significant difference between the mean score of both experimental group and control group. The value of t-obtained was consulted with the value of t-table at the degree of freedom $(n_1-1) + (n_2-1)$ and the level of confidence of 95% = 0. 05. If the value of

t-obtained was less than the value t-table, the null hypothesis was accepted; on the contrary, if the value of t-obtained is equal or bigger than value of t-table, the alternative one was not accepted.



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