CHAPTER III

RESEARCH METHOD

A. Research Design

The design of this research is Experimental research. According to Gay (2000:367), the experimental research is the only type of research that can test hypotheses to establish cause-and-effect relationship. It aims to find out the effect of question stories technique towards students' writing skill, related to; content, organization, vocabulary, language use, and mechanics. Sugiyono (2013: 113) states that experimental research is a research on the action from the beginning.

There are two classes will involve in this research. The first is classified as the experiment (E) and cother one is the control class (C). Both classes have the same topic, the same length of time. Both experimental class and control class will be taught by researcher. The two groups are treated as many as five meetings; it will be assumed that five meetings will be sufficient in seeing any difference that occurred afterward. After deciding which class is experimental and control, the researcher will be continued with the treatment process for experimental class and no treatment process for the control class. Before doing treatment researcher gives pre-test to both sample. Pre-test is given to know the students skill in writing before treatment. After treatment five

times, researcher gives post-test. Post test is done to know students' skill in writing after treatment. The result will be known by comparing the pretest and posttest.

The design of the research could be described as follows:

Table 3.1 Research Design

Group	Pre-test	Treatment	Post-test
A	O1	X	O2
В	O1		O2

Where:

A : Experimental class

B : Control Class

X : Treatment for experiment group by using Hamburger Strategy.

O1 : Pre-Test

O2 : Post-Test

The researcher gives question stories technique for the experimental class, and conventional technique for the control class. At the end of the research the researcher gives the post test to both samples. The test is written test.

B. Population and Sample

1. Population

Gay (1987:102) stated that the population is the group of interest to the researcher, the group to which she or he would like the result of the study to be generalized. The population of this research was all of the students at class VIII at Junior High School 4 Hiliran

Gumanti. Total numbers of class VIII students of Junior High School
4 Hiliran Gumanti are 120 students consist of three classes
(VIII₁,VIII₂, VIII₃, VIII₄)

Table 3.2Population of Class VIII Junior High School 4
Hilgum AY.2016/2017

Class	VIII ₁	VIII ₂	VIII ₃	VIII4
Total	30	29	31	30
Students				

Source: English Teacher's book mark

There are four classes, this research only focus to VIII class. The students are chosen as population based on assumption that they have learnt English, so that they have experience in writing English and they also learn with the same material and syllabus.

2. Sample

Sample is the process of selecting a number of individual for the study in such a way that individual represents the larger group from which they are selected. The purpose of sampling is to gain information about the population by using the sample. The sample is taken by cluster random sampling. Gay (1987:110) says that cluster random sampling is sampling in which group, not individuals, are randomly selected. The researcher will use this sampling strategy because it is hard to regroup the existed group. To decide the sample the writer used the coin. Class control was VIII₄ and experimental class was VIII₁.

Table 3.3 Sample of Research

CLASS	NUMBER OF	AVERAGE		
	STUDENTS			
VIII 1	30 STUDENTS	70.09		
(Experiment				
Class)				
VIII 4	30 STUDENTS	55.48		
(Control Class)				

The samples of this study will be VIII₁ as the experiment class and VIII₄ as the control class, the selected samples are assumed homogenous since the students are classified based on a same average knowledge and score by the school. Then, number of all sample are 60 students 30 students are in the experimental group and 30 students are in the control group. Dealing with the sample size of experimental research, 60 student are represent we enough to be the sample of this research.

C. Place and Time IN IMAM BONJOL

This research will be held at Junior High School 4 Hiliran Gumanti. The treatment will be conducted at class VIII students. This research will be done five times meeting where the treatment is one a week for experimental class. The treatment will be carried out based on the teaching schedule of Junior High School 4 Hilgum

D. Research Instrument

Instrument is a tool to collect data from the sample. This instruments which used in this research focused on the data that needed to be collected. The collected data will be used to explain the application of this research. There is one instrument that use in this research.

The instrument that used for this research is writing test. The researcher made the test. It is aim at obtaining the data of students' writing skill in Narrative text. There is pre-test and post-test. The post-test given to the students is aim to see whether the two classes had significant difference scores. This is also to see whether the treatment was useful or not. In post-test, the students assigned to create a narrative text based the topic given.

Sample of Instrument in Giving Writing Scores

No. of Students	PADANG					
Students	Content	Content Organization Voc Grammar Mechanics Total				
1	(30)	(20)	(20)	(25)	(5)	(100)
2						
30						

2. Post-test for control class

No. of Students	Aspects					
	Content (30)	Organization (20)	Voc (20)	Grammar (25)	Mechanics (5)	Total (100)
1						
2						
+						
30						

While, the researcher used the Jacob's criteria (1981:90) in scoring the student's writing. Those criteria can be seen from table below:

Table 3.5 Indicator of writing based on Jacob

No	Items	Criteria of Each Item	Score
1	Content		30-27
1	Content	 Excellent to very good: Knowledgeable; substantive; thorough development of 	30-27
		thesis; relevant to assigned topic.	
		o Good to average: Some knowledge of	26-22
		subject; adequaterange; limited	20-22
		development of thesis; mostly relevant to	
		topic, but lacks detail.	
		Fair to poor: limited knowledge of subject;	21-17
		little substance; inadequate development of	21-17
		topic.	
		• Very poor: does not show knowledge of	16-13
		subject; non-substantive; not pertinent; or	10-13
		not enough to evaluate.	
2	Organization	• Excellent to very good: Fluent expression;	20-18
	Organization	ideas clearly stated/ supported; succinct;	20 10
		well organized; letical sequencing;	
		cohesi	
		o Good to vera somewhat choppy;	17-14
		loosely organ. a but main ideas stand out;	
		limited support; logical but incomplete	
	l (13-10
		o Fair to poor non-fluent, ideas confused or	
		disconnected, lacks logical sequencing and	
		development.	9-7
		o Very poor: does not communicate; no	
		organization; or not enough to evaluate.	
3	Vocabulary	o Excellent to very good: sophisticated range;	20-18
		effective word/ idiom choice and usage;	
		word form mastery; appropriate register.	
		o Good to average: adequate range;	17-14
		occasional errors of word/ idiom form,	
		choice, usage but meaning not obscured.	
		• Fair to poor: limited range; frequent errors	13-10
		of word/ form choice, usage; meaning	
		confused or obscured.	0.7
		• Very poor: essentially translation; title	9-7
		knowledge of English vocabulary, idioms,	
		word form, or not enough to evaluate.	

4	Language	o Excellent to very good: effective complex	25-22
	Use	constructions; few errors of agreement,	
		tense, number, word order/ function,	
		articles, pronouns, prepositions.	
		o Good to average: effective but simple	21-18
		construction; minor problems in complex	
		constructions; several errors of agreement,	
		tense, number, word order/ function,	
		articles, pronouns, prepositions but	
		meaning seldom obscured.	
		o Fair to poor: major problems in simple/	17-11
		complex constructions; frequent errors of	
		negation, agreement, tense, number, word	
		order/ function, articles, pronouns,	
		prepositions and/ or fragments, run-ons,	
		deletions; meaning confused or obscured.	
		Very poor: virtually no mastery of sentence	10-5
		constructions rules; dominated by errors;	
		does not communicate; or not enough to	
		evalua <mark>te.</mark>	
5	Mechanics	o Excellent to very good: demonstrates	5
		mastery of conventions few errors of	
		spelling punctuation, capitalizations, paragraphing.	
		paragrabing.	
		o Good to terage occasional errors of	4
		spelling, pun ation, and capitalization,	
		paragraphing, but meaning not obscured.	_
		d Pair th Poort Frequent errors of spelling,	3
		punctuations, capitalizations, paragraphing;	
		poor handwriting, meaning confused or	
		obscured.	2
		• Very poor: no mastery of conventions	2
		dominated by errors of spelling,	
		punctuation, capitalization, paragraphing;	
		handwriting illegible; or not enough to	
		evaluate.	

Table 3.6 Blueprint of Writing Test

Types of Test	Component of writing	Indicator	Genre /Topics	Item
	Organization Vocabulary Language use Mechanics	The students are able to write down a paragraph in good content, organization, vocabulary, language use and mechanics	1. Malin Kundang 2. Nyi roro kidul 3. Mouse deer and Crocodile BONJOL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total			4. Pinocchio 5. The boy cried wolf	1
	of Test Writing test	Writing test Organization Vocabulary Language use Mechanics	Writing test Writing test Content The students are able to write down a paragraph in good content, organization, vocabulary, language use and mechanics Vocabulary Language use Mechanics UIN IMAM PADA	Writing test Content The students are able to write down a paragraph in good content, organization, vocabulary, language use and mechanics Vocabulary Language use Mechanics Wechanics Image: A content organization organization, vocabulary, language use and mechanics Witing the students are able to write down a paragraph in good content, organization, vocabulary, language use and mechanics Narrative Text Image: A content organization organization organization, vocabulary, language use and mechanics Narrative Text In Malin Kundang A content organization organization, vocabulary, language use and mechanics A content organization organization, vocabulary, language use and mechanics A content organization organization, vocabulary, language use and mechanics A content organization organization, vocabulary, language use and mechanics A content organization organization, vocabulary, language use and mechanics A content organization organization, vocabulary, language use and mechanics A content organization organization, vocabulary, language use and mechanics A content organization organization, vocabulary, language use and mechanics A content organization organization, vocabulary, language use and mechanics A content organization organization, vocabulary, language use and mechanics A content organization organizatio

E. Procedure of Research

There are some steps in this research such as preparation, learning process, and evaluation.

1. Preparation

In this step, this research prepared the steps such as determined the research time, prepared the lessons plan arranged by curriculum, explained to the students about the planning in learning process, prepared the final test.

2. Learning Process

Table 3.7 Procedure of Experiment

	Table 3.7 Procedure of Experiment					
No	Procedures	Teacher Activities	Students' Activities			
	activities					
1.	Pre Teaching	• Teacher greets the	• Students give the			
	Activities	students.	response			
	· ·	• Praying.	 Students praying 			
		eacher Asks the	• Students read the			
		lents to rethe	holy Qur'an			
		holy ur's	G. 1			
		• Teacher check	• Students give the			
	UIN	I student's Battendent	OL ^{response}			
	• • • • • • • • • • • • • • • • • • • •	mse.	-			
		• Teacher Asks the students last material.				
		Teacher introduces				
		learning objective to				
		students.				
		• The teacher asks the				
		students based on the				
		topic to built students				
		background				
		knowledge				
2.	Main Teaching					
	Activities					
		• Teacher asks students	• Students observe the			
	Observing	to observe the example	example of narrative			
		of narrative text	text			
		• Teacher assigns the				
		students to identify the	• Students identify the			

Questioning	characteristics of narrative text Teacher explain about question stories technique in narrative text Under the guidance and direction of teachers, students asking and questioning about question stories technique in narrative text. Teacher explains how to write narrative text with question stories technique	 Students asking and questioning the social function, the structure of the text, and linguistic elements of each of the text. Students listen to the teacher explanation
Exploration	 Teacher asks the student to find generic structure and social function from the example of narrative kt 	• Students' find generic structure and social function from the example of narrative text
Association UIN	• The teacher gives squaents feedback on the students' work	• Students listen to the teacher
Communicating	• When they already found their matches they can report to the teacher and if they are right, the teacher ask them to compose longer paragraph.	_
3. Post Teaching Activities	 Students are asked about their feeling after following the instructional activities or learning process. Teacher asks the students about 	Students answer the teachers' question

understanding materials that students have gotten. Teacher and students review and conclude the lesson.	
Teacher closes the lesson.	

Table 3.8 Procedure of Control Class

No	Procedures activities	Teacher Activities	Students' Activities
1.	Pre Teaching Activities	 Teacher greets the students. Praying. Teacher Asks the students to read the holy Qur'an Teacher ask the student's attribute. Teacher ask the students last material. Teacher introduces 	• Students give the response
		earning objective to students.	
2.	Main Teaching Activities		
	Observing	 Teacher give the examples of narrative text Teacher asks students to read a simple 	 Students observe the example of narrative text Students read the text
		 Teacher assigns the students to identify the generic structure of narrative text Teacher asks students 	 Students identify the generic structure of narrative text Students to discuss

			_
		to discuss the function, generic structure, and language features	the function, generic structure, and language features
Questio	oning	 Under the guidance and direction of teachers, students asking and questioning the social function, the structure of the text, and linguistic elements of each of the text. Teacher explains how to write narrative text 	 Students asking and questioning the social function, the structure of the text, and linguistic elements of each of the text. Students listen to the teacher explanation
Explor	ation	 Teacher asks each student make outline of narrative text in peer Teacher asks each anarra extent with a narra extent individually 	Students make outline of narrative text in peer
Associa	ation	• The teacher gives students feedback on the students' work	Students listen to the teacher
Comm	unicating	 Teacher ask students to communicate their writing in front of the class Teacher collects the students' work 	Students' communicate their writing in front of the class
3. Post Activit	Teaching cies	• Students are asked about their feeling after following the instructional activities or learning	Students answer the teachers' question

	process.	
•	Teacher asks the	
	students about	
	understanding	
	materials that	
	students have gotten.	
•	Teacher and students	
	review and conclude	
	the lesson.	
•	Teacher closes the	
	lesson.	

3. Evaluation

After doing the learning process the next step is the final test. The test is given to group as a sample. The test is written test. The students will be given explaination about the corponents of writing that were measured. They were content, a mization, vocabulary, language use and

mechanic. UIN IMAM BONJOL PADANG

F. Types of Data

The researcher collected the data in the form of quantitative. The term of qualitative data is used to describe a type of information that came from the data that expressed numerically. This type of data is often collected in experiments, and statistically analyzed. Quantitative data can be represented visually in graphs, histograms, tables and charts. The quantitative data got from the result of students' writing test in form of written test.

G. Technique of Data Collection

The researcher will collect the data by using test. To have a valid data, the researcher will collect the data by using writing test. The data that will be analyzed is post-test scores in form writing narrative text. After teaching for five times, the researcher will give post test for both experimental and control class.

The data is test. Data of this test consist of students' scores in post-test; the data will be collected by giving writing test. Post-test will be given at the end of the research or after finishing the treatment for five meetings. The test will be given both experiment and control group for 60 minutes.

H. Technique of Data Analys

The researcher will use the statistical procedures to analyze the scores. It gives a way to analyze the differences of writing achievement between control group and experimental group. To find the standard deviation in experimental and control class, the writer will use the formula of t-test.

In this case, T-test means a statistical procedure which is used to determine, whether there is any significant difference between the means of the two sets score from control and experiment class. In analyzing the students' test score, there are some steps that will be done before analyzing the different mean by using t-test formula as follows:

1. This formula applied to decide mean of students' test score in experiment and control group:

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

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

2. This formula will be used to decide standard deviation of experimental group;

$$S_{1}^{2} = \frac{n_{1} x \sum_{i} F_{1} x_{1}^{2} (\sum_{i} F_{1} X_{1})^{2}}{n_{1} (n_{1} - 1)}$$

3. This formula will be used decid standard deviation of control group;

$$S_{2}^{2} = \frac{n_{2} \times \sum_{n_{2}} F_{2} \times \sum_{n_{2}}^{2} (\sum_{n_{2}} F_{2} \times \sum_{n_{2}}^{2})^{2}}{PADANG}$$
PADANG

The formula of t-test as follows (Subana, 1996; 239)

$$t = \frac{\overline{X_1} - \overline{X_2}}{S\sqrt{\frac{1}{N_1} + \frac{1}{N_2}}}$$

$$S^{2} = \frac{(n-1)S_{1}^{2} + (n-1)S_{2}^{2}}{n_{1} + n_{2} - 2}$$

Note:

t = the value of t calculated

 $\overline{X_1}$ = Mean score of experimental group

 $\overline{X_2}$ = Mean score of control group

 S_1^2 = Standard deviation of experimental group

 S_2^2 = Standard deviation of control group

 n_1 = Number of experimental group

 n_2 = Number of control group

The t-table will be employed to see weather there was a significant difference between the mean score of both experimental group and control group. The value of t-calculated will be 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-calculated is less than the value t-table, the null hypothesis was not accepted; on the contrary, if the value of t-calculated is equal or bigger than value $(n_1-1) + (n_2-1)$ and the level of confidence of 95% = 0.05.

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