

**CHAPTER IV**  
**FINDING AND DISCUSSION**

**A. Finding**

**1. The pre-test result about the students' speaking ability of experiment class and control class at SMP Negeri 2 Batang Alai Selatan Central Hulu Sungai Regency**

To know the students' speaking skill in telling the story of before the researcher applied his media, the researcher gave speaking test as pre-test for the students in control class and experiment class on Monday and Tuesday, October 5<sup>th</sup> and 6<sup>th</sup> 2015 at SMP Negeri 2 Batang Alai Selatan Central Hulu Sungai Regency, it took time 80 minutes each classes.

**Table 4.1** *The students' pre-test result of speaking test in experiment class*

Student	Aspect of Assessment					Score
	Fluency	Vocabulary	Pronunciation	Grammar	Comprehension	
1	11	14	14	12	11	63
2	11	12	12	11	11	57
3	10	12	13	10	12	57
4	13	12	13	11	12	61
5	15	14	15	14	15	73
6	13	12	13	11	11	60
7	15	14	12	12	15	68
8	15	12	15	13	15	69

9	14	13	14	11	13	65
10	14	13	12	12	13	64
11	12	12	15	13	13	65
12	12	13	12	11	12	60
13	12	14	13	11	13	63
14	14	14	13	12	13	66
15	15	14	15	13	15	72
16	11	11	13	11	11	57
17	14	14	12	12	13	65
18	12	13	11	11	13	60
19	14	14	15	13	13	69
20	13	15	13	12	13	66
Amount						1280

The result of students' speaking ability of Experiment class at the second grade students of SMP Negeri 2 Batang Alai Selatan Central Hulu Sungai regency, to calculate the mean score of experiment class speaking test for pre-test, the writer uses the accounting of mean score as follows:

$$M_x = \frac{\sum X}{N} = \frac{1280}{20} = 64$$

Based on the calculation, it can be seen that the students' speaking ability of Experiment Class at the second grade students of SMP Negeri 2 Batang Alai Selatan is concluded in fair category.

**Table 4.2** *The students' pre-test result of speaking test in control class*

Student	Aspect of Assessment					Score
	Fluency	Vocabulary	Pronunciation	Grammar	Comprehension	
1	11	14	14	11	10	60
2	10	12	11	11	11	55
3	15	14	15	13	14	71
4	12	12	13	10	10	57
5	14	14	14	13	15	70
6	10	12	12	11	10	55
7	13	13	12	11	14	64
8	12	13	13	13	11	62
9	13	13	13	11	13	63
10	14	13	12	12	12	63
11	11	11	12	10	11	56
12	15	13	14	12	15	69
13	11	12	12	12	11	57
14	15	12	13	12	12	64
15	15	14	15	13	14	71
16	13	12	12	11	11	59
17	14	14	14	12	14	68
18	11	13	12	12	13	61
19	11	14	13	12	12	62

20	12	14	12	12	13	63
Amount						1250

To know the students' speaking ability of control class at the second grade students of SMP Negeri 2 Batang Alai Selatan regency, to calculate the mean score of control class speaking test for pre-test, the writer uses the accounting of mean score as follows:

$$M_y = \frac{\sum y}{N} = \frac{1250}{20} = 62,5$$

Based on the calculation, it can be seen that the students' speaking ability of Control Class at the second grade students of SMP Negeri 2 Batang Alai Selatan is concluded in fair category too.

## 2. Description of the Students' Pre-test in Experiment and Control Class

The pre-test was taken in the first meeting of each class. It is found that both classes are in same category in speaking ability. So, it can be seen on the table, as follow:

**Table 4.3** *Description of the Students' Pre Test Experiment and Control Class*

No	Category	Experiment Class	Control Class
1	Highest Score	73	71
2	Lowest Score	57	55
3	Mean	64	62,5

The table shows that the mean value of experiment class and control class is not too significant.

### 3. The post-test result about the students' speaking ability in telling the story of experiment class and control class at SMP Negeri 2 Batang Alai Selatan Central Hulu Sungai Regency

To know the students' ability in speaking by using Puppet, the writer asked the teacher to teach storytelling by using Puppet in experiment class and for control class the teacher taught them without puppet in storytelling. For this research the writer needed a month, for the experiment class every Tuesday & Saturday and for control class Monday & Thursday. And for the speaking test as post-test was done for experimental class on Tuesday, 3<sup>th</sup> and for control class Thursday, November 5<sup>th</sup> 2015, the test was done for 80 minutes each class.

**Table 4.4** *The students' post-test result of speaking test in experiment class*

Student	Aspect of Assessment					Score
	Fluency	Vocabulary	Pronunciation	Grammar	Comprehension	
1	16	16	17	14	16	79
2	14	13	15	12	15	69
3	15	15	16	13	15	74
4	16	15	16	15	16	78
5	17	17	17	15	18	84
6	16	14	15	14	15	74

7	15	14	14	12	14	69
8	15	15	16	14	16	76
9	16	15	16	14	16	79
10	15	14	14	14	13	70
11	16	16	17	14	17	80
12	15	15	16	13	15	74
13	16	16	16	14	15	77
14	14	13	15	13	14	69
15	18	16	18	14	17	82
16	14	13	14	13	15	69
17	16	15	16	14	15	76
18	15	13	14	13	15	70
19	15	14	15	12	13	69
20	15	15	15	13	14	72
Amount						1490

Based on the table above, it shows that the highest score of experiment class is 84 and the lowest score is 69 and also mean score is 74,5. To know the mean score of experiment class, the writer uses the accounting of mean score as follow:

$$M_x = \frac{\sum fx}{N} = \frac{1490}{20} = 74.5$$

The students' ability of storytelling of Experiment Class at the second grade at SMP Negeri 2 Batang Alai Selatan Central Hulu Sungai

Regency can be concluded by using Puppet in speaking is effective category.

**Table 4.5** *The students' post-test result of speaking test in control class*

Student	Aspect of Assessment					Score
	Fluency	Vocabulary	Pronunciation	Grammar	Comprehension	
1	14	14	15	12	14	69
2	14	13	13	12	14	65
3	15	15	16	14	15	75
4	15	13	14	12	14	68
5	13	13	13	12	13	64
6	15	14	15	11	14	69
7	15	14	15	12	14	70
8	14	15	14	13	14	70
9	15	14	15	12	13	71
10	13	12	13	12	13	63
11	14	12	13	12	13	64
12	15	15	14	13	16	73
13	13	15	14	12	13	67
14	15	14	15	12	14	70
15	15	14	14	13	15	71
16	14	13	13	12	13	65
17	16	15	15	13	15	74

18	14	14	15	12	14	69
19	13	14	14	13	13	67
20	14	14	14	12	14	68
Amount						1372

Based on the table above, it shows that the highest score of control class is 75 and the lowest score is 63 and also mean score is 68,6. To know the mean score of control class, the writer uses the accounting of

mean score as follow: 
$$M y = \frac{\Sigma Y}{N} = \frac{1372}{20} = 68,6$$

#### 4. Description of the Students' Post-test in Experiment Class and Control Class

##### a. Score Frequency of the Students' test result in post-test in experiment class

**Table. 4.6** *Score Frequency of the Students' test result in post-test in experiment class*

No	Score	Frequency	Percentage %	Category
1.	80- 100	3	15%	Very Effective
2.	70- < 80	12	60 %	Effective
3.	60- < 70	5	25 %	Fair
4.	50- < 60	-	-	Less Effective
5.	0 - < 50	-	-	Not Effective

Based on the table, it can be known that in experiment class there are 3 student or 15% in very effective category and there are 12 students or 60% in effective category and there are 5 students or 25% in enough category.

**b. Score Frequency of the Students' test result in post-test in control class**

**Table. 4.7** *Score Frequency of the Students' test result in post-test in control class*

No	Score	Frequency	Percentage %	Category
1.	80- 100	-	-	Very Effective
2.	70- < 80	8	40%	Effective
3.	60- < 70	12	60%	Fair
4.	50- < 60	-	-	Less Effective
5.	0 - < 50	-	-	Not Effective

Based on the table, it can be known that in control class there are 8 student or 40% in effective category and there are 12 or 60%% in effective enough category.

**5. The students' test result in Post test**

The students' test result of speaking test it can be seen from the post test score which is given in the end of the meeting. The description of students' post-test of experiment class and control class can be seen on the table below :

**Table 4.8** *Description of the Students' Post Test*

No	Category	Experiment Class	Control Class
1	Highest Score	84	75
2	Lowest Score	69	63
3	Mean	74,5	68,6
4	Standard Deviation	4,685	3,262

## 6. Result of Questionnaire

This research was done on November 10<sup>th</sup>, 2015. In this research, the students were given a set of questionnaire. The writer decided to give a pre questionnaire to the students because the writer needed to gather the data that supported this research. The purpose of giving the pre-questionnaire was to find out the specific students response in English learning, the students' background and their interest in speaking.

The questionnaire consisted of 6 (six) questions, which were related to speaking ability. The students were asked to answer each question with 'yes' or 'no'. The following is the questions of the questionnaire:

### *a. This is use in the begining of research*

No	Question	Yes	No
1	Do you think English is important ?		
2	Are you studying again English lessons at home with regularity?		

3	Do you often have conversations in English?		
4	Do you like to learn English in groups?		
5	Are you interested in learning a storytelling using puppets?		
6	Is your teacher never use the media in a previous study in English?		

**Table 4.9** The following is the result of this questionnaire:

No	Item	Yes		No	
		$\Sigma$	%	$\Sigma$	%
1	1	20	100%	-	-
2	2	6	30%	14	70%
3	3	8	40%	12	60%
4	4	18	90%	2	10%
5	5	20	100%	-	-
6	6	16	80%	4	20%

The students' answer in giving questionnaire provided the writer with the data of 20 students in class VIII A. All of them realized that English is important for them. Unfortunately, there were 70% who did not review their English material at home regularly. There were 60% who did not do conversation in English regularly. There were 90% learn English with a group. There were 100% who interested in learn English use the puppets as the media. Moreover, There were 20% who the teacher had never used any media in learning English.

*b. This is use in the end of research*

No	Question	Yes	No
1	Do you like to learn to use the puppets?		
2	Do you think that was fun learning to use puppets?		

3	Is using puppets can help expedite your speaking skills?		
4	Is using puppets can raise enthusiasm you in learning English ?		
5	Is using puppets can add your confidence in telling the story?		
6	Is the teaching and learning activities with the use of puppets need to be held continuously?		

**Table 4.10** The following is the result of this questionnaire:

No	Item	Yes		No	
		$\Sigma$	%	$\Sigma$	%
1	1	20	100%	-	-
2	2	20	100%	-	-
3	3	12	60%	8	40%
4	4	20	100%	-	-
5	5	15	75%	5	25%
6	6	11	55%	9	45%

From the table, item 1 indicates that all of the students liked to study using the puppets. Item 2 indicates that all of the students felt happy to study using the puppets. Item 3 indicates that using the puppets for many students could help learning English in speaking. Item 4 indicates that using the puppets all of the students could improve their enthusiasm to study English. Item 5 indicates that using the puppets 75% the students could improve their confidence to tell the story. In addition, Item 6 indicates that 45% the teaching and learning activity with using the puppets was not necessary to do continuously because they will feel bored and they need a new media in learning English.

## 7. Data Analysis

To know the effectiveness of teaching speaking by using Puppet as the media and without using Puppet, the writer uses comparative study with “t-test” formula.

- a. The writer shows the table below for main component in using deviation standard formula. The calculation can be seen below:

**Table 4.11** Calculation of experiment class (Variable X)

Scores (X)	Frequency (f)	fX	Deviation $x = X - M$	$x^2$	$fx^2$
84	1	84	9,5	90,25	90,25
82	1	82	7,5	56,25	56,25
80	1	80	5,5	30,25	30,25
79	2	158	4,5	20,25	40,5
78	1	78	3,5	12,25	12,25
77	1	77	2,5	6,25	6,25
76	2	152	1,5	2,25	4,5
74	3	222	- 0,5	0,25	0,75
72	1	72	-2,5	6,25	6,25
70	2	140	-4,5	20,25	40,5
69	5	345	-5,5	30,25	151,25
	N=20	$\sum fX=1490$			$\sum fx^2=439$

Looking for mean score of experiment class:

$$M_x = \frac{\sum fx}{N} = \frac{1490}{20} = 74.5$$

Looking for Deviation Standard for experiment class:

$$SD_x = \sqrt{\frac{\sum fx^2}{N}} = \sqrt{\frac{439}{20}} = \sqrt{21,95} = 4,685$$

**Table 4.12** Calculation of control class (Variable Y)

Scores (Y)	Frequency (f)	fY	Deviation y= Y-M	y <sup>2</sup>	fy <sup>2</sup>
75	1	75	6,4	40,96	40,96
74	1	74	5,4	29,16	29,16
73	1	73	4,5	19,36	19,36
71	2	142	2,4	5,76	11,52
70	3	210	1,4	1,96	5,88
69	3	207	0,4	0,16	0,48
68	2	136	-0,6	0,36	0,72
67	2	134	-1,6	2,56	5,12
65	2	130	-3,6	12,92	25,92
64	2	128	-4,6	21,16	42,32
63	1	63	-5,6	31,36	31,36
	N=20	$\sum fX=1372$			$\sum fy^2=212,8$

Looking for mean score of control class:

$$M_y = \frac{\sum Y}{N} = \frac{1372}{20} = 68,6$$

Looking for Deviation Standard for control class:

$$SD_y = \sqrt{\frac{\sum fy^2}{N}} = \sqrt{\frac{212,8}{20}} = \sqrt{10,64} = 3,262$$

b. The writer counting error standard of mean from each major by using formula:

Looking Standard Error of Mean for experimental class:

$$SEM_x = \frac{SD_x}{\sqrt{N-1}} = \frac{4,685}{\sqrt{20-1}} = \frac{4,685}{\sqrt{19}} = \frac{4,685}{4,359} = 1,075$$

Looking Standard Error of Mean for control class:

$$SEM_y = \frac{SD_y}{\sqrt{N-1}} = \frac{3,262}{\sqrt{20-1}} = \frac{3,262}{\sqrt{19}} = \frac{3,262}{4,359} = 0,748$$

c. The writer counts error standard of both subjects by using formula:

$$\begin{aligned} SE M_x - M_y &= \sqrt{SEM_x^2 + SEM_y^2} \\ &= \sqrt{1,075^2 + 0,748^2} \\ &= \sqrt{1,156 + 0,560} \\ &= \sqrt{1,716} \\ &= 1,310 \end{aligned}$$

d. The writer counts t-test

$$\begin{aligned} \text{t test} &= \frac{M_x - M_y}{SE_{M_x - M_y}} \\ &= \frac{74,5 - 68,6}{1,310} = \frac{9,08}{1,95} = 4,504 = \mathbf{4,50} \end{aligned}$$

e. After having the t-test score, the next step is interpreting it by using the t table. Before that, it is needed to look for the degree of freedom.

$$\begin{aligned} df/db &= (N_x + N_y) - 2 \\ &= (20 + 20) - 2 \\ &= 40 - 2 = 38 \end{aligned}$$

After the writer finds the df (degree of freedom), which is 40, the next step is to draw the conclusion based on the t value in the table after it is compared with the obtained t-test.

Finally,  $t_{table} (5\% = 2,02) < t_{test} (4,50) > t_{table} (1\% = 2,71)$ . Value shows that  $t_{test}$  is higher than  $t_{table}$  5% and 1%.  $H_0$  (Zero Hypothesis) is rejected and  $H_a$  (Alternative Hypothesis) is accepted. By this result, the writer concludes that  $H_a$  through this research is accepted. Therefore, the using of puppet in teaching speaking is effective and there is a significant difference in the teaching students speaking skills using Puppet in experiment class and teaching students speaking skill without using Puppet in control class. The finding of the research supports the theories and give English teachers more fact to apply that media for considering in the teaching speaking skill.

## **B. Discussion**

The purposes of the study were to know whether effective of puppet to improve students speaking skill at the second grade students of SMP Negeri 2 Batang Alai Selatan in the first academic year 2015/2016, and also to describe improvement of students speaking skill after teach using puppet at the second grade students of SMP Negeri 2 Batang Alai Selatan in the first academic year 2015/2016.

First research question stated how effective using puppet to improve students speaking skill at the second grade students of SMP Negeri 2 Batang Alai Selatan in the first academic year 2015/2016. The results showed a significant difference between  $t_{table} (5\% = 2,02) < t_{test} (4,50) > t_{table} (1\% = 2,71)$ . It shows that  $t_{test}$  is higher than  $t_{table}$  5% and 1%.  $H_0$  (Zero Hypothesis) is rejected and  $H_a$  (Alternative Hypothesis) is accepted. The

calculation of t test base on the result of this study the mean scores of post-test in experiment class is 74,5 and control class is 68,6. Thus, it proved that using Puppet for experiment class got score in effective category.

The results of this study were other evidence of the benefit of using puppet to improve students speaking ability as one of skills in English. Another research by Reidmiller (2008) of using puppet given some benefit reviews that students who were taught using puppet in the classroom are many and varied, provides an opportunity for student expression through the social aspects of communication, the use of a puppet can provide help with public speaking, especially for the shy or apprehensive student, the use of puppets in the classroom increased student involvement, motivation, and the development of student's reading, oral language, and communication skills.

Second research question stated how is the improvement of students speaking skill after teach using puppet at the second grade students of SMP Negeri 2 Batang Alai Selatan in the first academic year 2015/2016. Based on the result of this study the scores of post-test in experiment class is 74,5 and control class is 68,6. In previous test, the result of this study the scores of pre-test in experiment class is 64 and control class is 62,5. Thus, it proved that using Puppet of post test for experiment class got score in effective category and taught without using Puppet for control class can be concluded in fair category.

In this study, the students who were taught using Puppet tended to remain positive and continued to remain engaged in the lesson. The students were excited learn in the classroom and volunteered practice in front of class. Azlina (1981) stated make the presentation realistic, language learning process more fun and not boring, students will be more interested and excited about learning, provides direct experience because it is presented in a concrete, involve the the students, and motivate students to learn.

In this study, the students who were taught using puppet can be seen from students. When the students were taught using the traditional method they appeared bored. Responses by students can also be seen through pre and post questionnaire, Item 1 indicates that all of the students liked to study using the puppets. Item 2 indicates that all of the students felt happy to study using the puppets. Item 3 indicates that using the puppets for many students could help learning english in speaking. Item 4 indicates that using the puppets all of the students could improve their enthusiasm to study English. Item 5 indicates that using the puppets 75% the students could improve their confidence to tell the story. In addition, Item 6 indicates that 55% the teaching and learning activity with using the puppets was necessary to do continuously as a new media in English learning.