CHAPTER IV THE RESULT OF THE RESEARCH

A. The Description of the Data Research

In this chapter, the writer would like to present the description of data obtained. As the writer stated at the previous chapter that the population of the students SMPN 2 Kota Serang and the subject of this research are the second grade students. In this research, the writer divided them into two classes, 34 students are experiment class, its from class VIII D, and 34 students as control class, its from class VIII B.

To find the effectiveness to use short story through audio material, the writer identified some result, they are: the score of students before treatment, the score students after treatment.

To know increasing speaking skill using short story through audio material, the writer gave the test to students as the sample both at the experimental class and at the control class, the test used in this research divided in two types, there are pre-test and post-test, the pre-test is the test that giving before treatment and the post-test is given after giving treatment. The maximum score of grammar was 20, the maximum score of vocabulary was 20, the maximum score of comprehension was 20, the maximum score of fluency was 20, the maximum score of pronunciation was 20. The highest of total score all criteria is 100.

The writer described the result of pre-test at experimental class by the table bellows:

Table 4.1

The students score of pre-test at experimental class

			ASPECT					
NO	NAME						TOTAL	
		G	V	C	F	P		
1	S1	5	5	5	5	5	25	
2	S2	5	5	10	5	5	30	
3	S 3	5	5	10	10	5	35	
4	S4	5	10	10	10	5	40	
5	S5	5	10	10	10	10	45	
6	S6	5	5	10	10	10	40	
7	S7	5	10	5	5	5	30	
8	S8	5	5	5	5	10	30	
9	S9	5	5	5	5	5	25	
10	S10	5	5	5	5	5	25	
11	S11	5	10	5	5	5	30	
12	S12	5	5	10	5	5	30	
13	S13	5	10	10	5	5	35	
14	S14	5	5	5	5	5	25	
15	S15	5	5	5	5	5	25	
16	S16	5	5	5	5	5	25	
17	S17	5	5	5	5	10	30	

18	S18	5	10	10	5	5	35
19	S19	5	5	10	5	10	35
20	S20	10	5	10	5	10	40
21	S21	5	10	10	10	10	45
22	S22	5	5	5	5	5	25
23	S23	5	5	5	5	5	25
24	S24	5	5	5	10	5	30
25	S25	5	5	10	10	5	35
26	S26	5	5	5	5	5	25
27	S27	5	5	5	5	5	25
28	S28	5	10	10	5	5	35
29	S29	5	5	10	10	5	35
30	S30	5	5	10	5	5	30
31	S31	5	5	5	5	5	25
32	S32	5	5	5	5	10	30
33	S33	5	5	5	-	5	20
34	S34	5	5	10	5	10	35
	N=34						∑1055
		Avera	age				31,02

the table 4.1 above showed about explain speaking scale criteria, there are:

G = grammar

V = vocabulary

C = comprehension

F = fluency

P = pronounciation

The table 4.1 above showed that the result of the students pre-test score on the criteria speaking skill at the experimental class. that the data showed the maximum score was 45, and the minimum score was 20. Two students who got maximum score and one student who get minimum score. The avarage score pre-test was 31,02.

Table 4.2

The students score of post-test at experimental class

			A				
NO	NAME						TOTAL
		G	V	С	F	P	
1	S1	10	15	15	10	10	60
2	S2	10	20	10	15	10	65
3	S3	10	15	20	15	10	70
4	S4	15	15	15	15	15	75
5	S5	15	15	20	15	15	80
6	S6	15	15	20	10	10	70
7	S7	10	15	15	15	20	75
8	S8	5	15	15	10	15	60
9	S 9	5	10	15	10	10	50

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13 S13 5 15 20 10 10 60 14 S14 5 10 20 20 10 65 15 S15 10 20 20 10 10 70 16 S16 5 15 15 15 10 60 17 S17 10 15 20 15 10 70 18 S18 10 15 20 15 10 70 18 S19 10 10 15 20 10 65 20 S20 10 15 15 15 75 19 S19 10 10 15 15 15 70 20 S20 10 15 15 15 70 21 S21 15 20 20 10 10 75 22 S22 10 10 15 <td>11</td> <td>S11</td> <td>10</td> <td>20</td> <td>20</td> <td>10</td> <td>10</td> <td>70</td>	11	S11	10	20	20	10	10	70
14 S14 5 10 20 20 10 65 15 S15 10 20 20 10 10 70 16 S16 5 15 15 15 10 60 17 S17 10 15 20 15 10 70 18 S18 10 15 20 15 15 75 19 S19 10 10 15 20 10 65 20 S20 10 15 15 15 15 70 21 S21 15 20 20 10 10 75 22 S22 10 10 15 15 10 60 23 S23 5 15 20 10 10 60 24 S24 5 10 20 15 15 70 26 S26 10 <td>12</td> <td>S12</td> <td>10</td> <td>10</td> <td>20</td> <td>15</td> <td>10</td> <td>65</td>	12	S12	10	10	20	15	10	65
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16 S16 5 15 15 15 10 60 17 S17 10 15 20 15 10 70 18 S18 10 15 20 15 15 75 19 S19 10 10 15 20 10 65 20 S20 10 15 15 15 70 21 S21 15 20 20 10 10 75 22 S22 10 10 15 15 10 60 23 S23 5 15 20 10 10 60 24 S24 5 10 20 15 15 65 25 S25 5 15 20 15 15 70 26 S26 10 15 20 15 15 60 28 S28 15 15 <td>14</td> <td>S14</td> <td>5</td> <td>10</td> <td>20</td> <td>20</td> <td>10</td> <td>65</td>	14	S14	5	10	20	20	10	65
17 S17 10 15 20 15 10 70 18 S18 10 15 20 15 15 75 19 S19 10 10 15 20 10 65 20 S20 10 15 15 15 15 70 21 S21 15 20 20 10 10 75 22 S22 10 10 15 15 10 60 23 S23 5 15 20 10 10 60 24 S24 5 10 20 15 15 65 25 S25 5 15 20 15 15 70 26 S26 10 15 20 15 15 60 28 S28 15 15 20 15 10 75 29 S29 10 <td>15</td> <td>S15</td> <td>10</td> <td>20</td> <td>20</td> <td>10</td> <td>10</td> <td>70</td>	15	S15	10	20	20	10	10	70
18 S18 10 15 20 15 15 75 19 S19 10 10 15 20 10 65 20 S20 10 15 15 15 15 70 21 S21 15 20 20 10 10 75 22 S22 10 10 15 15 10 60 23 S23 5 15 20 10 10 60 24 S24 5 10 20 15 15 65 25 S25 5 15 20 15 15 70 26 S26 10 15 20 10 15 70 27 S27 10 10 20 5 15 60 28 S28 15 15 20 15 10 75 29 S29 10 <td>16</td> <td>S16</td> <td>5</td> <td>15</td> <td>15</td> <td>15</td> <td>10</td> <td>60</td>	16	S16	5	15	15	15	10	60
19 S19 10 10 15 20 10 65 20 S20 10 15 15 15 15 70 21 S21 15 20 20 10 10 75 22 S22 10 10 15 15 10 60 23 S23 5 15 20 10 10 60 24 S24 5 10 20 15 15 65 25 S25 5 15 20 15 15 70 26 S26 10 15 20 15 15 70 27 S27 10 10 20 5 15 60 28 S28 15 15 20 15 10 75 29 S29 10 10 15 20 60 31 S31 5 20	17	S17	10	15	20	15	10	70
20 S20 10 15 15 15 70 21 S21 15 20 20 10 10 75 22 S22 10 10 15 15 10 60 23 S23 5 15 20 10 10 60 24 S24 5 10 20 15 15 65 25 S25 5 15 20 15 15 70 26 S26 10 15 20 10 15 70 27 S27 10 10 20 5 15 60 28 S28 15 15 20 15 10 75 29 S29 10 10 10 15 15 60 30 S30 5 10 10 15 20 60 31 S31 5 20	18	S18	10	15	20	15	15	75
21 S21 15 20 20 10 10 75 22 S22 10 10 15 15 10 60 23 S23 5 15 20 10 10 60 24 S24 5 10 20 15 15 65 25 S25 5 15 20 15 15 70 26 S26 10 15 20 10 15 70 27 S27 10 10 20 5 15 60 28 S28 15 15 20 15 10 75 29 S29 10 10 10 15 15 60 30 S30 5 10 10 15 20 60 31 S31 5 20 15 10 15 65 32 S32 15 10 20 10 15 70 33 S33 5 <td< td=""><td>19</td><td>S19</td><td>10</td><td>10</td><td>15</td><td>20</td><td>10</td><td>65</td></td<>	19	S19	10	10	15	20	10	65
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23 S23 5 15 20 10 10 60 24 S24 5 10 20 15 15 65 25 S25 5 15 20 15 15 70 26 S26 10 15 20 10 15 70 27 S27 10 10 20 5 15 60 28 S28 15 15 20 15 10 75 29 S29 10 10 10 15 15 60 30 S30 5 10 10 15 20 60 31 S31 5 20 15 10 15 65 32 S32 15 10 20 10 15 70 33 S33 5 15 15 20 10 65 34 S34 10	21	S21	15	20	20	10	10	75
24 S24 5 10 20 15 15 65 25 S25 5 15 20 15 15 70 26 S26 10 15 20 10 15 70 27 S27 10 10 20 5 15 60 28 S28 15 15 20 15 10 75 29 S29 10 10 10 15 15 60 30 S30 5 10 10 15 20 60 31 S31 5 20 15 10 15 65 32 S32 15 10 20 10 15 70 33 S33 5 15 15 20 10 65 34 S34 10 10 20 15 15 70	22	S22	10	10	15	15	10	60
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26 S26 10 15 20 10 15 70 27 S27 10 10 20 5 15 60 28 S28 15 15 20 15 10 75 29 S29 10 10 10 15 15 60 30 S30 5 10 10 15 20 60 31 S31 5 20 15 10 15 65 32 S32 15 10 20 10 15 70 33 S33 5 15 15 20 10 65 34 S34 10 10 20 15 15 70	24	S24	5	10	20	15	15	65
27 S27 10 10 20 5 15 60 28 S28 15 15 20 15 10 75 29 S29 10 10 10 15 15 60 30 S30 5 10 10 15 20 60 31 S31 5 20 15 10 15 65 32 S32 15 10 20 10 15 70 33 S33 5 15 15 20 10 65 34 S34 10 10 20 15 15 70	25	S25	5	15	20	15	15	70
28 S28 15 15 20 15 10 75 29 S29 10 10 10 15 15 60 30 S30 5 10 10 15 20 60 31 S31 5 20 15 10 15 65 32 S32 15 10 20 10 15 70 33 S33 5 15 15 20 10 65 34 S34 10 10 20 15 15 70	26	S26	10	15	20	10	15	70
29 S29 10 10 10 15 15 60 30 S30 5 10 10 15 20 60 31 S31 5 20 15 10 15 65 32 S32 15 10 20 10 15 70 33 S33 5 15 15 20 10 65 34 S34 10 10 20 15 15 70	27	S27	10	10	20	5	15	60
30 S30 5 10 10 15 20 60 31 S31 5 20 15 10 15 65 32 S32 15 10 20 10 15 70 33 S33 5 15 15 20 10 65 34 S34 10 10 20 15 15 70	28	S28	15	15	20	15	10	75
31 S31 5 20 15 10 15 65 32 S32 15 10 20 10 15 70 33 S33 5 15 15 20 10 65 34 S34 10 10 20 15 15 70	29	S29	10	10	10	15	15	60
32 S32 15 10 20 10 15 70 33 S33 5 15 15 20 10 65 34 S34 10 10 20 15 15 70	30	S30	5	10	10	15	20	60
33 S33 5 15 15 20 10 65 34 S34 10 10 20 15 15 70	31	S31	5	20	15	10	15	65
34 S34 10 10 20 15 15 70	32	S32	15	10	20	10	15	70
	33	S33	5	15	15	20	10	65
N=34 ∑2260	34	S34	10	10	20	15	15	70
		N=34						∑2260

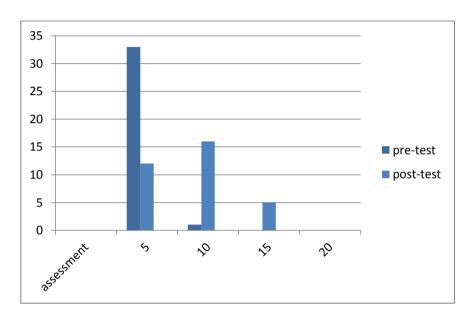
Average	66,47
Average	00,47

The table 4.2 above showed that the result of the students post-test score on the criteria speaking skill at the experimental class. that the data showed the maximum score was 80, and the minimum score was 50. One student who got the maximum and one student who got the minimum score. The avarage post-test was 66,47

Based on the explanation above, it showed the result of post test at experimental class got the significant improvement after giving treatment, it seen from the avarage of post-test was better than the avarage of pre-test, that 31,02< 66,47.

Graphic 4.1

The comparison of grammar in pre-test and post-test at the experimental class



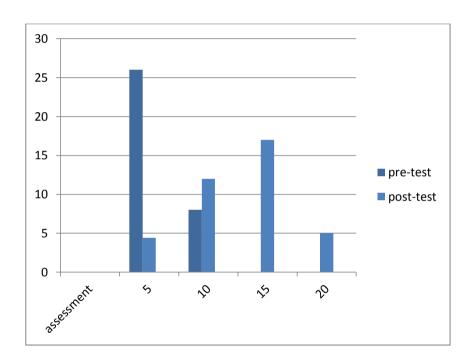
From the graphic above, the writer concluded that the students score in grammar of speaking assessment was lack in pretest. most fo students had can speak english but not understand of grammar. But in post-test, there was improvement in grammar. They can speak english short story and they had understod grammar.

The maximum score in grammar of speaking assessment was 20 and the minimum score in grammar of speaking assessment is 5. In pre-test the maximum score was 10 have gotten by one student and the minimum score was 5 has gotten by 33 students. In pos-test score was 15 has gotten by 6 students, score was 10 has gotten by 16 students and minimum score was 5 has gotten by 12

students. And all of number of sample in the experimental class was 34 students. And then, there is significant score between pretest and post-test.

Graphic 4.2

The comparison of vocabularie in pre-test and post-test at the experimental class

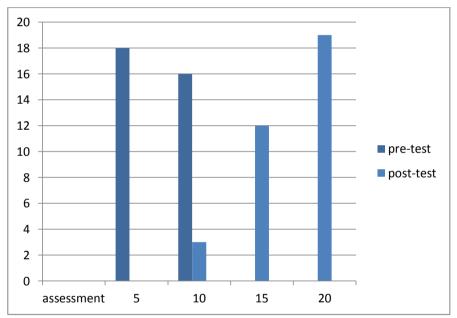


from the graphic above, the writer concluded that the students score of vocabulary of speaking assessment was lack in pre-test. most of students had unable to identify the meaning of words and it used based on the context. Most of students had can identify the meaning of words and its use according to the context with fairly precise and accurate. The maximum score in vocabulary of speaking assessment was 20 and the minimum was 5. In pre-test

has gotten score 5 there are 26 students and has gotten score 10 there are 8 students. In post-test has gotten score 10 there are 12 students, has gotten score 15 there are 17 students, and score was 20 there are 5 students. Finally there is significant score between pre-test and post-test.

Graphic 4.3

The comparison of comprehension in pre-test and post-test at the experimental class

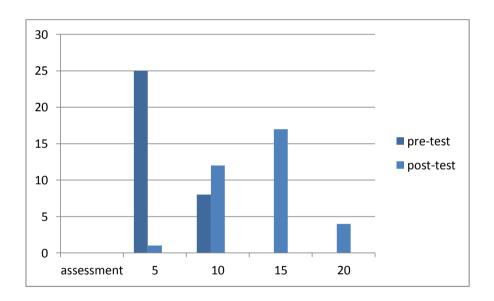


from the graphic above, the writer concluded that the students score in comprehension of speaking assessment was lack in pre-test. Most of students not understand what meaning of short story. But in post-test, there was improvement in their comprehension and the purpose of short story. The maximum score in comprehension of speaking assessment was 20 and the

minimum score was 5. In pre-test has gotten score 5 there are 18 students, has gotten score 10 there are 16 students. In post-test the students has gotten score 10 there are 3 students, the students has gotten score 15 there are 12 students and students has gotten score 20 there are 19 students. Actually there is significant between pre-test and post-test.

Graphic 4.4

The comparison of fluency in pre-tets and post-test at the experimental class

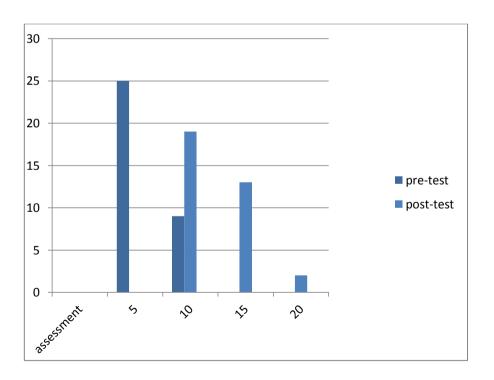


From the graphic above, the writer concluded that students score in fluency of speaking assessment was lack in pre-test. Most of students can not speak english well and do not remember what will say. But after giving treatment and post-test the students had can remember what will say and them can tell short story very well.

The maximumm score in fluency of speaking assessment was 20 and the minimum score was 5. In pre-test the student has gotten score 5 there are 25 students, has gotten score 10 there are 8 students. But in post-test the students score has gotten 5 there are 1 srudent, has gotten score 10 there are 12 students, has goten score 15 there are 17 students, has gotten score 20 there are 4 students. Actually there is significant score between pre-test and post-test.

Graphic 4.5

The comparison of pronunciation in pre-test and post-test at the experimental class



From the graphic above, the writer concluded that students score in pronunciation of speaking assessment was lack in pre-test. Most of students had can't to pronun their short story. But in post-test, there was improvement in the pronunciation. Most of students had can to pronun their short story. The maximum score in pronunciation of speaking assessment was 20 and the minimum was 5. In pre-test the students has gotten score 5 there are 25 students and has gotten score 10 9 students. But in post-test the tsudents has gotten score 10 there are 19 students, the student has got score 15 there are 13 students and the students has got score 20 there are 2 students. And then, there significant score between pre-test and post-tets.

Tabel 4.3

The student score of pre-test at the control class

NO	NAME						TOTAL
		G	V	С	F	P	
1	S1	5	5	5	5	5	25
2	S2	5	5	10	5	5	30
3	S 3	5	5	5	5	5	25
4	S4	5	5	5	5	5	25
5	S5	5	5	5	5	5	25
6	S 6	5	5	5	5	5	25
7	S7	5	10	5	5	5	30
8	S 8	5	10	10	5	5	35
9	S 9	5	10	10	10	5	40

10	S10	5	5	10	10	10	40
11	S11	5	5	10	5	5	30
12	S12	5	5	10	10	5	35
13	S13	5	5	10	5	10	35
14	S14	5	5	5	5	5	25
15	S15	5	5	5	5	5	25
16	S16	5	10	5	5	5	30
17	S17	5	5	5	5	5	25
18	S18	5	5	10	10	5	35
19	S19	10	5	10	5	5	40
20	S20	5	5	5	5	5	25
21	S21	5	5	5	5	5	25
22	S22	5	5	5	5	5	25
23	S23	5	5	5	5	5	25
24	S24	5	5	5	5	5	25
25	S25	5	5	10	10	10	40
26	S26	5	5	10	5	10	35
27	S27	5	5	5	5	10	30
28	S28	5	5	5	5	5	25
29	S29	5	5	5	5	5	25
30	S30	5	5	5	5	5	25
31	S31	5	5	5	5	5	25
32	S32	5	10	10	5	10	40
33	S33	5	5	10	5	5	30
34	S34	5	5	10	10	5	35
	N=34						∑ 1015

Average	29,85
<u> </u>	

The table 4.3 above showed that the result of the students pre-test on the speaking scale criteria at the control class, the data showed the maximum score was 40, and the minimum score was 25. 5 students who get mmaximum and 17 students who got the minimum score.

The result above showed about the average score pre-test at the control class was 29,85.

Table 4.4

The students score of post-test at control class

			ASPECT					
NO	NAME						TOTAL	
		G	V	С	F	P		
1	S1	5	10	15	10	10	50	
2	S2	10	5	10	10	15	50	
3	S3	5	5	10	10	10	40	
4	S4	5	5	10	5	10	35	
5	S5	5	5	10	5	10	35	
6	S 6	5	5	10	10	10	40	
7	S7	5	5	15	5	10	40	
8	S 8	5	10	20	15	10	60	
9	S 9	10	15	15	10	10	60	
10	S10	10	15	15	10	15	65	
11	S11	10	15	15	15	15	70	
12	S12	10	15	15	15	15	70	

		Averag	ge				56,76
	N=34						∑ 1930
34	S34	10	15	20	15	10	70
33	S33	5	10	20	15	10	60
32	S32	5	20	15	10	15	65
31	S31	5	10	15	10	10	50
30	S30	5	20	15	10	10	60
29	S29	10	15	15	10	15	65
28	S28	5	15	10	15	15	60
27	S27	5	15	15	15	10	60
26	S26	5	15	20	15	15	70
25	S25	5	20	15	10	15	65
24	S24	5	15	10	10	10	50
23	S23	10	15	15	10	10	60
22	S22	10	15	10	10	15	60
21	S21	10	10	10	5	15	50
20	S20	5	10	10	10	15	50
19	S19	10	10	15	5	10	50
18	S18	5	15	15	15	15	65
17	S17	5	10	15	10	10	50
16	S16	5	15	15	10	15	60
15	S15	10	15	20	15	10	70
14	S14	10	15	15	15	10	65
13	S13	5	15	15	10	15	60

The table 4.4 above showed that the result of the students post-test score on the criteria speaking scale at the control class control class. that the data showed the maximum score was 70, and the minimum score was 35. 5 students who got the maximum score and 2 students who got the minimum score.

The result above showed about the avarage score post-test at the control class was 56.76.

Based on the explanation above, it showed the result of post-test at contro class got significant improvement after giving treatment, it seen from the avarage of post-test was better than the avarage of pre-test that 29,85< 56,76.

B. Data Analysis

The data of the tests are compared in each group. It is done to know the improvement. To make easy in analysis of collecting data, the writer adopts the following steps:

- a. Put the score into the table of data statistic
- b. Put the score into the table of distribution frequency
- c. Calculate the means of each group
- d. Calculate the standard deviation of each group
- e. Analyze the data and calculate them by using the formula of T-test

Here are the data of pre-test and post-test scores of experimental class and control class.

1. The mean of Experimental and Control Class

$$Mx = \frac{\sum x}{Nx}$$
 $My = \frac{\sum y}{Ny}$

Where:

Mx : Mean of experimental group

 $\sum x$: The Sum of Sample at Experimental Class

Nx : The Number of Sample at Experimental Class

My : Mean of Control Class

 $\sum y$: The Sum of Sample at Control Class

Ny : The Number of Sample at Control Class

2. The Standard Deviation

Standard Deviation of Experimental and Control Class

$$Mx = \sum x^2 - \left(\frac{\sum x}{Nx}\right)^2 \qquad My = \sum y^2 - \left(\frac{\sum y}{Ny}\right)^2$$

 $\sum X^2$: The Standard Deviation of Experimental Class

x : Gain result of Experimental Class

Nx : The Number of the Sample at Experimental Class

 Σy^2 : The Standard Deviation of Control Class

y : Gain result of Control Class

Ny : The Number of Sample of Control Class

3. Significant Test (t-test)

$$t = \frac{Mx - My}{\sqrt{\left(\frac{\sum x^2 + \sum y^2}{Nx^2 + N - 2}\right)\left(\frac{1}{Nx} + \frac{1}{Ny}\right)}}$$

Where:

t: The result of the two means

Mx: The average of score experiment group

My : The average of score control group

N: The number of the subject

x: Deviation of each score x^2 and y^1

y : Deviation of score y² and y1

 $\sum x^2$: Some of square deviation of control class

 $\sum y^2$: Some of squared deviation of control class

Nx : Subject of experiment class

Ny : Subject of control class

4. T-Table

The writer after that found the t-count the writer calculated db (Drajat Bersih) or df (Degree of Freedom), which is formulated as follow:

df: (Nx + Ny - 2)

df : Degree of Freedom

Nx: Number of the students in the Control Class

Ny : Number of the students in Experimental Class

This is the data of pre-test and post-test score of experimental class and control class

 $Table\ 4.5$ The difference score pre-test and post-test at Experimental Class (x)

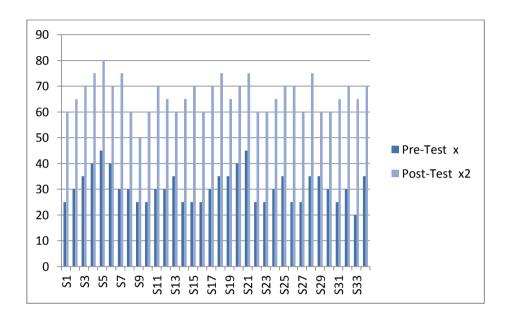
No	Name	Pre-Test	Post-Test	Gain	(x) ²
		X	x2	(x)	
1	S1	25	60	35	1225
2	S2	30	65	35	1225
3	S 3	35	70	35	1225
4	S4	40	75	35	1225
5	S5	45	80	35	1225
6	S6	40	70	30	900
7	S7	30	75	45	2025
8	S8	30	60	30	900
9	S 9	25	50	25	625
10	S10	25	60	35	1225
11	S11	30	70	40	1600
12	S12	30	65	35	1225
13	S13	35	60	25	625
14	S14	25	65	40	1600
15	S15	25	70	45	2025
16	S16	25	60	35	1225
17	S17	30	70	40	1600
18	S18	35	75	40	1600
19	S19	35	65	30	900
20	S20	40	70	30	900
21	S21	45	75	30	900
22	S22	25	60	35	1225

23	S23	25	60	35	1225
24	S24	30	65	35	1225
25	S25	35	70	35	1225
26	S26	25	70	45	2025
27	S27	25	60	35	1225
28	S28	35	75	40	1600
29	S29	35	60	25	625
30	S30	30	60	30	900
31	S31	25	65	40	1600
32	S32	30	70	40	1600
33	S33	20	65	45	2025
34	S34	35	70	35	1225
	Σ	1055	2260	1175	43725

The difference score was the result from post-test score substract pre-test score. There was significant difference score between pre-test and post-test at the experimental class, the biggest different score was 45 and the lowest difference was 25. All of students increased in their scores.

Graphic 4.6

The difference score between pre-test and post-test of speaking assessment at the experimental classs.



Graphic 4.1 above showed that the result of the student pretest and post-test score on criteria speaking skill at the experimental class. that the data showed pre-test score, the maximum score was 45, and the minimum score was 20. Two students who got the maximum and one student who got the minimum score, and post-test score, the maximum score was 80, and the minimum score was 50. One student who got the maximum score and 1 student who got the minimum score.

 $Table\ 4.6$ The difference score between pre-test and post-test at Control Class (y)

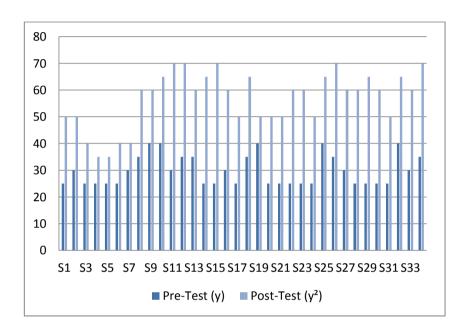
No	Name	Pre-Test (y)	Post-	Gain (y)	(y²)
			Test (y²)		
1	S1	25	50	25	625
2	S2	30	50	30	900
3	S3	25	40	15	225
4	S4	25	35	10	100
5	S5	25	35	10	100
6	S6	25	40	15	225
7	S7	30	40	10	100
8	S8	35	60	25	625
9	S9	40	60	20	400
10	S10	40	65	25	625
11	S11	30	70	40	1600
12	S12	35	70	35	1225
13	S13	35	60	25	625
14	S14	25	65	40	1600
15	S15	25	70	45	2025
16	S16	30	60	30	900
17	S17	25	50	25	625
18	S18	35	65	25	625
19	S19	40	50	10	100
20	S20	25	50	25	625
21	S21	25	50	25	625
22	S22	25	60	35	1225

31	S30 S31	25	50	25	625
30	S29 S30	25 25	65 60	40 35	1600 1225
28	S28	25	60	35	1225
27	S27	30	60	30	900
26	S26	35	70	35	1225
25	S25	40	65	25	625
24	S24	25	50	25	625
23	S23	25	60	35	1225

The difference score was the result from post-test score substract pre-test score. There was significant difference score between pre-test and post-test at the control class, the biggest difference score was 45 and the lowest difference was 10. All of students increased in their scores.

Graphic 4.7

The difference score between pre-test and post-test of speaking test at the control class



Graphic 4.2 above showed that the result of the student pretest and post-test score on criteria speaking at the control class, that the data showed pre-test score, the maximum score was 40 and the minimum score was 25. Five students who got the maximum score and 17 students who got minimum score, and post-test score, the maximum score was 70 and the minimum score was 35. Five students who got the maximum score and two students who got the minimum score.

 $Table\ 2$ The Result of Experimental Class (X1) and Control Class (Y2)

No Code Number X2 No Code Number Y2 1 S1 60 1 S1 50 3600 2500 3 2 S2 65 2 S2 50 4225 2500 3	$X_1 \bullet Y_2$ 3000 3250 2800
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3000 3250
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3000 3250
No Number X2 No Number Y2 1 S1 60 1 S1 50 3600 2500 3 2 S2 65 2 S2 50 4225 2500 3	3250
Number 2 Number 2 1 S1 60 1 S1 50 3600 2500 3 2 S2 65 2 S2 50 4225 2500 3	3250
2 S2 65 2 S2 50 4225 2500 3	3250
	2800
3 S3 70 3 S3 40 4900 1600 2	
4 S4 75 4 S4 35 5625 1225 2	2625
5 S5 80 5 S5 35 6400 1225 2	2800
6 S6 70 6 S6 40 4900 1600 2	2800
7 S7 75 7 S7 40 5625 1600 3	3000
8 S8 60 8 S8 60 3600 3600 3	3600
9 S9 50 9 S9 60 2500 3600 3	3360
10 S10 60 10 S10 65 3600 4225 3	3900
11 S11 70 11 S11 70 4900 4900 4	1900
12 S12 65 12 S12 70 4225 4900 4	4550
13 S13 60 13 S13 60 3600 3600 3	3600
14 S14 65 14 S14 65 4225 4225 4	4225
15 S15 70 15 S15 70 4900 4900 4	4900
16 S16 60 16 S16 60 3600 3600 3	3600
17 S17 70 17 S17 50 4900 2500 3	3500
18 S18 75 18 S18 65 5625 4225 4	4875
19 S19 65 19 S19 50 4225 2500 3	3250

<u> </u>				<u> </u>		∠-143100	00	210
$\Sigma = 2260$			$\Sigma = 1925$			∑=143100	∑=1131	∑=128
34	S34	70	34	S34	70	4900	4900	4900
33	S33	65	33	S33	60	4225	3600	3900
32	S32	70	32	S32	65	4900	4225	4875
31	S31	65	31	S31	50	4225	2500	3250
30	S30	60	30	S30	60	3600	3600	3600
29	S29	60	29	S29	65	3600	4225	3900
28	S28	75	28	S28	60	5625	3600	4500
27	S27	60	27	S27	60	3600	3600	3600
26	S26	70	26	S26	70	4900	4900	4900
25	S25	70	25	S25	65	4900	4225	4550
24	S24	65	24	S24	50	4225	2500	3250
23	S23	60	23	S23	60	3600	3600	3600
22	S22	60	22	S22	60	3600	3600	3600
21	S21	75	21	S21	50	5625	2500	3750
20	S20	70	20	S20	50	4900	2500	3500

C. Analyzing of the Data Research

1. The Mean of Control Class

To find the mean of control class, the writer used the following

formula:
$$My = \frac{\sum y}{Ny}$$

My : Mean of Control Class

 $\sum y$: The Sum of Control Class

Ny : The Number of Sample at Control Class

My = 920

34

= 27,05

To find the mean of experimental class, the writer used the following formula:

$$Mx = \frac{\sum x}{Nx}$$

Mx : Mean of experimental class

 $\sum x$: The Sum of experimental class

Nx: The Number of Sample at experimental class

 $Mx : \frac{1175}{34}$

= 34,55

2. The Standard Deviation

To calculate the standard Deviation of Control Class, the writer used the formula as follow:

 $My = \sum y^2 - \left(\frac{\sum y}{Ny}\right)^2$

 $\sum y^2$: The Standard Deviation of Control Class

y : Gain result of Control Class

Ny : The Number of the Sample at Experimental

Class

$$= 31200 - (920)^{2}$$

$$34$$

$$= 31200 - (846400)$$

$$34$$

$$= 31200 - 24894$$

$$= 6306$$

• The Standard Deviation Experimental Class

$$M x = \sum x^2 - \left(\frac{\sum x}{Nx}\right)^2$$

 $\sum x$: The Standard Deviation of Experimental Class

x : Gain Result of Experimental Class

$$\sum x^2$$
 : 43725 – $(\underline{1175})^2$

34

: 43725 – <u>1380625</u>

34

: 43725 - 40606

: 3119

3. Significant test (t-test)

$$t = \frac{Mx - My}{\sqrt{\left(\frac{\sum x^2 + \sum y^2}{Nx^2 + N - 2}\right)\left(\frac{1}{Nx} + \frac{1}{Ny}\right)}}$$

Where:

t : The result of the two means

Mx: The average of score experiment group

My : The average of score control group

N : The number of the subject

x : Deviation of each score x and y

y : Deviation of score y and y

 $\sum x^2$: Some of square deviation of control class

 $\sum y^2$: Some of squared deviation of control class

Nx : Subject of experiment class

Ny : Subject of control class

$$t = \frac{34,55 - 27,05}{\sqrt{\left(\frac{6306 + 3119}{34 + 34 - 2}\right)\left(\frac{1}{34} + \frac{1}{34}\right)}}$$

$$=\,\frac{7,5}{\sqrt{71(0,058)}}$$

$$= \frac{7,5}{\sqrt{4,1748}}$$

$$=\frac{7,5}{2,0292}$$

= 3,69

4. T-Table

After the writer found the t-count ha calculated db (Drajat Bebas) or df (Degree of Freedom), which is formulated as follow:

df : (Nx + Ny - 2)

df : Degree of Freedom

Nx: Number of the students in the Control Class

Ny : Number of the students in Experimental Class

df : (34 + 34 - 2) = 66

The result above showed about the score of sample both experimental and control class. the writer used 68 students as sample for research. 34 students from VIII D as experimental class and 34 students from VIII B as control class.

Comparing "t" has been tested in calculating $(t_o=3,69)$, and DF = 66, there is no DF for 66, the writer used the closer "DF" from 60. So DF = 66 which has been tasted on t-table $(t_t 5\% = 2,00)$ and $t_t 1\% = 2,65)$ it can be known that $t_o > t_t 5\%$ and $t_o > t_t 1\%$, it means 2,00 < 2,65.

D. Interpretation of Data

The data showed that the mean of pre-test score obtained by students of VIII D as experimental class was 31,02 and pre-test scores obtained by students of VIII B as control class was 29,85. The highest in the two classes that was class VIII D as experimental class got 45 and VIII B as control class got 40. The lowest score of pre-test in booth classes was 20 for experimental class and 25 for control class.

The data showed that the mean of post-test score obtained by students of VIII D as experimental class was 66,47 while VIII B as control class 56,76. The highest score post-test of VIII D as experimental class got 80 and VIII B as control class got 70. The lowest score post-test as experimental class 60 and control class 50.

By DF= 68 and analyzed by using t-test, the writer tasted there was and effect in using short story through audio material because

t-count was higher that t-table in significant 5% was 2,00 and significant level 1% was 2,65.

From the interpretation above t-count> t-table there was significant effect using short story through audio material to increas speaking skill.

Testing hypothesis was to know the significant of both variables, and tested as follow:S

 $Ha=t_{o} t_{t}$

 $Ho=t_o < t_t$

Notes:

Ha= Alternative Hypothesis

Ho= Null Hypothesis

t_{o=} The value of t-observation

 t_t = The value of t-table

To prove the data hypothesis, the data obtained from an experimental class and control class are calculated by using t-test formula with assumption as follows:

if $t_o > t_t$: the alternative hypothesis is accepted it means there was significant effect by using short story in teaching speaking skill at VIII D as experimental class and VIII B as control class.

from the result calculation above, the value of $t_o = 3,69$ the degree of freedom (df) = 68. The writer use degree of significant 5% = 2,00 and 1% = 2,65. It means that Ha (Alternative Hypothesis) of the research is accepted and Ho (Null Hypothesis) is rejected.

After getting the data, the writer compared it t_t both degree of significant 5% and 1% $t_o > 2,00 < 3,69 > 2,65$. It means (Alternative Hypothesis) of the research is accepteed. The result on research about increasing speaking skill using short story through audio material has positive effect and accepted in teaching speaking skill.