

CHAPTER IV

RESULT AND DISCUSSION

In the chapter on the findings and discussion, the researchers will present the result of research in the field.

A. Presentation of Data

Presentation of Data is an effort to display and explain the data obtained by researchers to facilitate the process of understanding and analyzing the data to be presented. And researchers in this study used a test (pr-r-test and post-test).

1. The Result of Data Test

From the data of this study are the pre-test and post-test scores they have done on ability of the effect of using picture series at storytelling. This research was conducted at MTS Miftahul Ulum Ambunten from 23 February 2022 to request permission to conduct research from class X MTS Miftahul Ulum and was accepted on the same day. The researcher continued his research from March 02,2022, up to April 20, 2022. In this study, the researcher used a pre-experimental design that will measure whether or not there will be a better use of images. Researcher need students test scores as data to measure the effect of using pictures in storytelling. For the test, the researcher used a multiple choice test consisting of 5pre-test and 5post-test questions. The test questions between the pre-test and post-test are different questions, but still with the same topic.

2. The Result of Pre-test

The researcher conducted a pre-test to students score before the teacher gave the treatment. The researcher gave a pre-test to class X on March 02,2022, for class X-A at 07.30, on March 12,2022 for class X-B at 08.30 and on March 16,2022 for class X-C at 10.00. There are 76 students in class X, namely class X-A there are 23 students, class X-B there are 21 students and class X-C there are 32 students. Researchers use initials to maintain sample privacy. The results of the pre-test are presented in the following table :

Table 1

The result of pre-test

X-A

No	Students	Score
1	A K	40
2	A S M	40
3	A F W	40
4	A S D	20
5	A R	20
6	A A	20
7	A B	20
8	E S	40
9	F R	40
10	H N	40
11	I J	20
12	M A S	20
13	M Z F	20
14	M A	40
15	M F	60
16	M I	60
17	M S Y	40
18	M S	40
19	M S M	40
20	M W	20

21	S Y	20
22	T R	20
23	W H S	40

X-B

No	Students	Score
24	A D Z	20
25	A R	40
26	A A J	40
27	A C	40
28	A F	40
29	FA	20
30	MA	40
31	M K	60
32	M K S N	20
33	M A R	20
34	M A	40
35	M B H	40
36	M D A	40
37	M U F	40
38	M I R	40
39	M J	20
40	M S	20
41	M U	20
42	M N G	60
43	M Q M	40
44	M S	20

X-C

No	Students	Score
45	A J A	20
46	A N	20
47	A B	20
48	D S P	40
49	F A	40

50	I N H	20
51	I H	20
52	IS	20
53	KH	20
54	K H	40
55	L F	40
56	L R	40
57	L F	20
58	MA	20
59	N F	40
60	N Z	20
61	N H F	20
62	N H	60
63	N K	40
64	R S	40
65	R S H	20
66	S U	20
67	S M	20
68	S A	20
69	S F	20
70	S Y	40
71	S N	40
72	SO	40
73	S H	40
74	SU	40
75	U H	60
76	ZE	60
SUM		2.500

In that table above (Table 1) was score of pre-test of X-A, X-B, and X-C before taught by using picture series in storytelling ability exactly in descriptive text. The total score was 2.500.

3. The Presentation of Treatment

In this research, the treatment was only given one time for treatment to the students of the tenth grade at MTS Miftahul Ulum. After getting the pre-test scores from 76 students as a sample, the research conduct the

treatment by the teacher which is taught the students by using picture series in storytelling.

a. In the first treatment, the researcher gave a pre-test for class X. For class X-A it was conducted on Wednesday, March 02,2022 at 07.30, for class X-B it was conducted on Saturday, March 12,2022 at 08.30, and for class X-C it was conducted on Wednesday, March 16,2022 at 10.00. The duration of each class is 60 minutes. There are several steps taken by the teacher in giving treatment to students as follow :

- 1) The teacher opens class meeting by greeting basmalah and reading prayer, then check the attendance list.
- 2) The teacher tells the students today's topic.
- 3) The teacher asks students questions about today's topic and then explain today's topic which is about descriptive text
- 4) The teacher gives instructions to students to open the book page 62 about descriptive text
- 5) After students open the book, the teacher instructs them to read the text
- 6) After the students read the text, the teacher began to apply the treatment about using pictures series at storytelling
- 7) Students pay attention when the teacher gives an explanation and they say 'yes' or 'no' when their teacher understand or not
- 8) The teacher and students discuss together about descriptive text and using pictures series

- 9) The teacher closes the class meeting by reading prayer and hamdalah together

4. The Result of Post-test

After giving the treatment which was only done once to the students, the researcher gave a post-test to find out the extent of the students progress. The post-test was conducted on Saturday, March 26,2022 for class X-A, on Wednesday, April 06,2022 for class X-B, and

on Wednesday, April 13,2022 for class X-C. The following is a table of data obtained from the post-test :

Table 2

The result of post-test

X-A

No	Students	Score
1	A K	80
2	A S M	60
3	A F W	60
4	A S D	60
5	A R	60
6	A A	60
7	A B	80
8	E S	60
9	F R	80
10	H N	60
11	I J	100
12	M A S	60
13	M Z F	60
14	M A	80
15	M F	60
16	M I	60
17	M S Y	60
18	M S	60
19	M S M	80
20	M W	80

21	S Y	100
22	T R	80
23	W H S	60

X-B

No	Students	Score
24	A D Z	60
25	A R	80
26	A A J	60
27	A C	60
28	A F	60
29	FA	60
30	MA	80
31	M K	60
32	M K S N	80
33	M A R	100
34	M A	100
35	M B H	80
36	M D A	80
37	M U F	100
38	M I R	60
39	M J	60
40	M S	80
41	M U	100
42	M N G	60
43	M Q M	80
44	M S	60

X-C

No	Students	Score
45	A J A	100
46	A N	60
47	A B	60
48	D S P	60
49	F A	80
50	I N H	100
51	I H	60
52	I S	60
53	K H	80
54	K H	100

55	L F	80
56	L R	60
57	L F	60
58	MA	100
59	N F	80
60	N Z	60
61	N H F	100
62	N H	100
63	N K	60
64	R S	80
65	R S H	60
66	S U	80
67	S M	60
68	S A	100
69	S F	60
70	S Y	100
71	S N	60
72	SO	100
73	S H	60
74	SU	80
75	U H	80
76	ZE	80
SUM		5.620

The table score of post-test of the students after taught using picture series in storytelling. The sum of post-test was 5.620.

5. Validity and Reliability

a. Validity of pre-test

After the researcher obtaining the pre-test and post-test score of the students, the researchers will give prove about validity of the t-test which has been done.

Table 3

Validity of pre-test

Correlations

		question 1	question 2	question 3	question 4	question 5	Total
question 1	Pearson Correlation	1	-,052	-,235*	-,217	-,151	,256*
	Sig. (2-tailed)		,658	,041	,059	,194	,025
	N	76	76	76	76	76	76
question 2	Pearson Correlation	-,052	1	-,149	-,190	-,303**	,239*
	Sig. (2-tailed)	,658		,198	,101	,008	,037
	N	76	76	76	76	76	76
question 3	Pearson Correlation	-,235*	-,149	1	-,078	-,072	,331**
	Sig. (2-tailed)	,041	,198		,504	,535	,003
	N	76	76	76	76	76	76
question 4	Pearson Correlation	-,217	-,190	-,078	1	-,113	,275*
	Sig. (2-tailed)	,059	,101	,504		,332	,016
	N	76	76	76	76	76	76
question 5	Pearson Correlation	-,151	-,303**	-,072	-,113	1	,269*
	Sig. (2-tailed)	,194	,008	,535	,332		,019
	N	76	76	76	76	76	76
Total	Pearson Correlation	,256*	,239*	,331**	,275*	,269*	1
	Sig. (2-tailed)	,025	,037	,003	,016	,019	
	N	76	76	76	76	76	76

*. Correlation is significant at the 0.05 level (2-tailed).

**. Correlation is significant at the 0.01 level (2-tailed).

As the appointment $r_{\text{value}} > r_{\text{table}}$, it means question is valid. The degree of freedom of this research is 75.

DF (Degree of Freedom)	Critical value "r" 5%
75	0,227

Based on the table above we can describe:

- 1) Question 1 = 0,256 > 0,227
- 2) Question 2 = 0,239 > 0,227
- 3) Question 3 = 0,331 > 0,227

4) Question 4 = 0,275 > 0,227

5) Question 5 = 0,269 > 0,227

Based on the description above, we can conclude if all question of pre-test are valid.

b. Reliability of pre-test

To know the reliability of test the researcher uses formula K-R 20. And this formula that would be uses in this research:

$$r_{11} = \frac{n}{n-1} \left(1 - \frac{\sum p_i q_i}{n \cdot s^2} \right)$$

r_{11} : instrument reliability

n : number of items test

s^2 : variance of the total test scores

p and q : computed for each item, then summed over all n items to give

$$\sum p_i q_i$$

The researcher takes calculate the result of r_{11} is copare with r_{table} by 5% of significance.

- 1) Firstly, make a table of number of students as a sample and the score of each student (X)

Table 4

Each Item of Pre-test Score

No	Score of each item					X
	1	2	3	4	5	

1	2	0	0	0	2	4
2	2	2	0	0	0	4
3	0	0	0	2	2	4
4	0	0	2	0	0	2
5	2	0	0	0	0	2
6	0	2	0	0	0	2
7	0	0	0	0	2	2
8	0	0	2	2	0	4
9	0	2	0	2	0	4
10	2	2	0	0	0	4
11	0	0	0	0	2	2
12	0	0	0	2	0	2
13	0	0	2	0	0	2
14	2	2	0	0	0	4
15	0	2	0	2	2	6
16	0	0	2	2	2	6
17	0	2	2	0	0	4
18	2	0	0	0	2	4
19	0	2	2	0	0	4
20	0	0	0	2	0	2
21	0	0	0	0	2	2
22	2	0	0	0	0	2
23	0	2	0	0	2	4
24	0	0	2	0	0	2
25	0	0	0	2	2	4
26	2	2	0	0	0	4
27	0	2	0	2	0	4
28	0	0	2	2	0	4
29	0	0	0	0	2	2
30	2	2	0	0	0	4
31	2	0	2	2	0	6
32	0	2	0	0	0	2
33	0	0	0	0	2	2
34	2	0	0	0	2	4
35	0	2	2	0	0	4
36	0	0	0	2	2	4
37	2	0	2	0	0	4
38	0	2	2	0	0	4
39	0	0	0	2	0	2
40	0	0	0	0	2	2

41	2	0	0	0	0	2
42	2	2	2	0	0	6
43	0	2	0	2	0	4
44	0	0	0	0	2	2
45	0	0	2	0	0	2
46	2	0	0	0	0	2
47	0	2	0	0	0	2
48	2	0	0	2	0	4
49	0	0	2	0	2	4
50	0	2	0	0	0	2
51	0	0	0	2	0	2
52	2	0	0	0	0	2
53	0	0	2	0	0	2
54	0	2	0	0	2	4
55	2	0	0	2	0	4
56	0	0	2	0	2	4
57	0	2	0	0	0	2
58	2	0	0	0	0	2
59	0	0	2	0	2	4
60	0	0	0	2	0	2
61	0	2	0	0	0	2
62	2	0	2	0	2	6
63	2	0	0	2	0	4

64	0	2	2	0	0	4
65	0	0	0	0	2	2
66	2	0	0	0	0	2
67	0	0	0	2	0	2
68	0	2	0	0	0	2
69	0	0	2	0	0	2
70	2	0	0	0	2	4
71	0	2	0	2	0	4
72	0	0	2	0	2	4
73	2	2	0	0	0	4
74	0	0	2	2	0	4
75	2	2	0	0	2	6
76	0	0	2	2	2	6
Σ						250

2) Secondly, calculate mean of the total score using this formula :

$$\begin{aligned}
 p:q_i &= \frac{\Sigma X}{N} \\
 &= \frac{250}{76} \\
 &= 3,289
 \end{aligned}$$

3) Thirdly, compute the variance total of pre-test

Table 5

Variance Total of Pre-test Score

No	Score	$(x-\bar{x})$	$(x-\bar{x})^2$
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1	40	7,11	50,55
2	40	7,11	50,55
3	40	7,11	50,55
4	20	-12,89	166,15
5	20	-12,89	166,15
6	20	-12,89	166,15
7	20	-12,89	166,15
8	40	7,11	50,55
9	40	7,11	50,55
10	40	7,11	50,55
11	20	-12,89	166,15
12	20	-12,89	166,15
13	20	-12,89	166,15
14	40	7,11	50,55
15	60	27,11	734,95
16	60	27,11	734,95
17	40	7,11	50,55
18	40	7,11	50,55
19	40	7,11	50,55
20	20	-12,89	166,15
21	20	-12,89	166,15
22	20	-12,89	166,15
23	40	7,11	50,55
24	20	-12,89	166,15
25	40	7,11	50,55
26	40	7,11	50,55
27	40	7,11	50,55
28	40	7,11	50,55
29	20	-12,89	166,15
30	40	7,11	50,55
31	60	27,11	734,95
32	20	-12,89	166,15
33	20	-12,89	166,15
34	40	7,11	50,55
35	40	7,11	50,55
36	40	7,11	50,55
37	40	7,11	50,55
38	40	7,11	50,55
39	20	-12,89	166,15
40	20	-12,89	166,15
41	20	-12,89	166,15
42	60	27,11	734,95
43	40	7,11	50,55
44	20	-12,89	166,15

45	20	-12,89	166,15
46	20	-12,89	166,15
47	20	-12,89	166,15
48	40	7,11	50,55
49	40	7,11	50,55
50	20	-12,89	166,15
51	20	-12,89	166,15
52	20	-12,89	166,15
53	20	-12,89	166,15
54	40	7,11	50,55
55	40	7,11	50,55
56	40	7,11	50,55
57	20	-12,89	166,15
58	20	-12,89	166,15
59	40	7,11	50,55
60	20	-12,89	166,15
61	20	-12,89	166,15
62	60	27,11	734,95
63	40	7,11	50,55
64	40	7,11	50,55
65	20	-12,89	166,15
66	20	-12,89	166,15
67	20	-12,89	166,15
68	20	-12,89	166,15
69	20	-12,89	166,15
70	40	7,11	50,55
71	40	7,11	50,55
72	40	7,11	50,55
73	40	7,11	50,55
74	40	7,11	50,55
75	60	27,11	734,95
76	60	27,11	734,95
	32,89	Σ	12.563

Following the formula to calculate the variance total :

$$\begin{aligned}
 S^2 &= \frac{\Sigma(x-x)^2}{N-1} \\
 &= \frac{12.563}{76-1} \\
 &= \frac{12.563}{75}
 \end{aligned}$$

$$= 167,50$$

4) Input the result of variance total the KR formula

$$\begin{aligned} R_{11} &= \frac{n}{n-1} \left(1 - \frac{\sum p_i q_i}{n \cdot s^2} \right) \\ &= \frac{5}{5-1} \left(1 - \frac{3,289}{5 \cdot 167,50} \right) \\ &= \frac{5}{4} \left(1 - \frac{3,289}{837,5} \right) \\ &= 1,25 (1 - 0,003) \\ &= 1,25 (0,997) \\ &= 1,246 \end{aligned}$$

DF (Degree of Freedom)	Critical value "r" 5%
75	0,227

Based on above of correlation table we can see if $r_{11} = 1,246$ is higher than r_{table} . It means the pre-test is reliable.

c. Validity of Post-test

Table 6

Validity of Post-test

		Correlations					
		X1	X2	X3	X4	X5	Score
X1	Pearson Correlation	1	-,146	-,061	,005	-,146	,411**
	Sig. (2-tailed)		,210	,603	,964	,210	<,001
	N	76	76	76	76	76	76
X2	Pearson Correlation	-,146	1	-,179	,179	-,123	,400**
	Sig. (2-tailed)	,210		,122	,122	,291	<,001
	N	76	76	76	76	76	76

X3	Pearson Correlation	-,061	-,179	1	-,238*	,036	,300**
	Sig. (2-tailed)	,603	,122		,039	,759	,008
	N	76	76	76	76	76	76
X4	Pearson Correlation	,005	,179	-,238*	1	-,250*	,380**
	Sig. (2-tailed)	,964	,122	,039		,029	<,001
	N	76	76	76	76	76	76
X5	Pearson Correlation	-,146	-,123	,036	-,250*	1	,283*
	Sig. (2-tailed)	,210	,291	,759	,029		,013
	N	76	76	76	76	76	76
Score	Pearson Correlation	,411**	,400**	,300**	,380**	,283*	1
	Sig. (2-tailed)	<,001	<,001	,008	<,001	,013	
	N	76	76	76	76	76	76

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

If $r_{\text{value}} > r_{\text{table}}$, it means questions is valid.. But if $r_{\text{value}} < r_{\text{table}}$, it means questions is not validThe degree of freedom this research is 75.

DF (Degree of Freedom)	Critical value "r" 5%
75	0,227

Based on the table above we can describe :

1. Question 1 = $0,411 > 0,227$
2. Question 2 = $0,400 > 0,227$
3. Question 3 = $0,300 > 0,227$
4. Question 4 = $0,380 > 0,227$
5. Question 5 = $0,283 > 0,227$

Based on the above and appoinment before, so we can conclude if all questions of post-test are valid.

d. Reliability of the Post-test

1. Firstly, make table the number of each item score post-test

Table 7

Each Item of Post-test Score

NO	Score of each item					X
	1	2	3	4	5	
1	2	0	2	2	2	8
2	2	2	0	2	0	6
3	0	2	2	0	2	6
4	2	0	2	0	2	6
5	2	2	0	2	0	6
6	0	0	2	2	2	6
7	2	2	2	2	0	8
8	2	2	0	0	2	6
9	0	2	2	2	2	8
10	2	0	0	2	2	6
11	2	2	2	2	2	10
12	0	2	2	0	2	6
13	2	0	2	2	0	6
14	2	2	0	2	2	8
15	0	2	2	0	2	6
16	2	0	2	0	2	6
17	0	2	2	2	0	6
18	0	2	0	2	2	6
19	2	0	2	2	2	8
20	2	2	2	0	2	8
21	2	2	2	2	2	10
22	2	2	2	2	0	8
23	0	2	0	2	2	6
24	2	0	2	0	2	6
25	2	2	2	2	0	8
26	0	2	0	2	2	6
27	0	0	2	2	2	6
28	2	0	2	0	2	6

29	2	2	0	2	0	6
30	2	2	2	0	2	8
31	0	2	2	2	0	6
32	0	2	2	2	2	8
33	2	2	2	2	2	10
34	2	2	2	2	2	10
35	2	2	0	2	2	8
36	0	2	2	2	2	8
37	2	2	2	2	2	10
38	2	0	2	0	2	6
39	2	2	0	2	0	6
40	0	2	2	2	2	8
41	2	2	2	2	2	10
42	0	0	2	2	2	6
43	2	2	2	0	2	8
44	2	2	0	2	0	6
45	2	2	2	2	2	10
46	2	0	2	2	0	6
47	0	2	0	2	2	6
48	2	0	2	0	2	6
49	2	2	2	2	0	8
50	2	2	2	2	2	10
51	0	2	2	0	2	6
52	2	0	0	2	2	6
53	0	2	2	2	2	8
54	2	2	2	2	2	10
55	2	2	2	2	0	8
56	0	2	2	0	2	6
57	2	0	2	2	0	6
58	2	2	2	2	2	10
59	2	2	0	2	2	8
60	0	2	2	2	0	6
61	2	2	2	2	2	10
62	2	2	2	2	2	10
63	0	2	2	0	2	6
64	2	2	0	2	2	8
65	0	0	2	2	2	6
66	2	2	2	2	0	8
67	2	2	2	0	0	6
68	2	2	2	2	2	10
69	0	2	0	2	2	6
70	2	2	2	2	2	10
71	2	0	2	0	2	6
72	2	2	2	2	2	10

73	0	2	2	2	0	6
74	0	2	2	2	2	8
75	2	0	2	2	2	8
76	2	2	0	2	2	8
Σ						562

2. Secondly, calculate of the total score using formula :

$$\begin{aligned}
 p:q_i &= \frac{\sum X}{N} \\
 &= \frac{562}{76} \\
 &= 7,394
 \end{aligned}$$

3. Thirdly, compute the variance total of post-test.

Table 8

Variance Total of Post-test Score

No	Score	(x-\bar{x})	(x-\bar{x})²
1	80	6,06	36,72
2	60	-13,94	194,32
3	60	-13,94	194,32
4	60	-13,94	194,32
5	60	-13,94	194,32
6	60	-13,94	194,32
7	80	6,06	36,72
8	60	-13,94	194,32
9	80	6,06	36,72
10	60	-13,94	194,32
11	100	26,06	679,12
12	60	-13,94	194,32
13	60	-13,94	194,32
14	80	6,06	36,72
15	60	-13,94	194,32
16	60	-13,94	194,32
17	60	-13,94	194,32
18	60	-13,94	194,32
19	80	6,06	36,72

20	80	6,06	36,72
21	100	26,06	679,12
22	80	6,06	36,72
23	60	-13,94	194,32
24	60	-13,94	194,32
25	80	6,06	36,72
26	60	-13,94	194,32
27	60	-13,94	194,32
28	60	-13,94	194,32
29	60	-13,94	194,32
30	80	6,06	36,72
31	60	-13,94	194,32
32	80	6,06	36,72
33	100	26,06	679,12
34	100	26,06	679,12
35	80	6,06	36,72
36	80	6,06	36,72
37	100	26,06	679,12
38	60	-13,94	194,32
39	60	-13,94	194,32
40	80	6,06	36,72
41	100	26,06	679,12
42	60	-13,94	194,32
43	80	6,06	36,72
44	60	-13,94	194,32
45	100	26,06	679,12
46	60	-13,94	194,32
47	60	-13,94	194,32
48	60	-13,94	194,32
49	80	6,06	36,72
50	100	26,06	679,12
51	60	-13,94	194,32
52	60	-13,94	194,32
53	80	6,06	36,72
54	100	26,06	679,12
55	80	6,06	36,72
56	60	-13,94	194,32
57	60	-13,94	194,32
58	100	26,06	679,12
59	80	6,06	36,72
60	60	-13,94	194,32
61	100	26,06	679,12
62	100	26,06	679,12
63	60	-13,94	194,32

64	80	6,06	36,72
65	60	-13,94	194,32
66	80	6,06	36,72
67	60	-13,94	194,32
68	100	26,06	679,12
69	60	-13,94	194,32
70	100	26,06	679,12
71	60	-13,94	194,32
72	100	26,06	679,12
73	60	-13,94	194,32
74	80	6,06	36,72
75	80	6,06	36,72
76	80	6,06	36,72
	73,94	Σ	243,24

Following the formula to calculate the variance total :

$$\begin{aligned}
 S^2 &= \frac{\Sigma(x-x)^2}{N-1} \\
 &= \frac{243,24}{76-1} \\
 &= \frac{243,24}{75} \\
 &= 3,243
 \end{aligned}$$

4. Input the result of variance total to the KR formula

$$\begin{aligned}
 R_{11} &= \frac{n}{n-1} \left(1 - \frac{\Sigma p_i q_i}{n \cdot S^2} \right) \\
 &= \frac{5}{5-1} \left(1 - \frac{7,394}{5 \cdot 3,243} \right) \\
 &= \frac{5}{4} \left(1 - \frac{7,394}{16,215} \right) \\
 &= 1,25 (1-0,455) \\
 &= 1,25 (0,545) \\
 &= 0,681
 \end{aligned}$$

DF (Degree of Freedom)	Critical value “r” 5%
75	0,227

Based on above of correlation table we can see if $r_{11} = 0,681$ is higher than r_{table} . It means the post-test is reliable.

6. Data Analysis

After giving treatment to students and getting the pre-test and post-test scores, the researcher will analyze the data of scores using the t-test formula

:

- a) Firstly, make a table containing the students pre-test and post-test scores and determine the difference (D) by subtracting the scores from the pre-test and post-test:

Table 9

Differences Score of Pre-test and Post-test

NO	PRE-TEST	POST-TEST	D
1	40	80	40
2	40	60	20
3	40	60	20
4	20	60	40
5	20	60	40
6	20	60	40
7	20	80	60
8	40	60	20
9	40	80	40
10	40	60	20
11	20	100	80
12	20	60	40
13	20	60	40
14	40	80	40
15	60	60	0
16	60	60	0

17	40	60	20
18	40	60	20
19	40	80	40
20	20	80	60
21	20	100	80
22	20	80	60
23	40	60	20
24	20	60	40
25	40	80	40
26	40	60	20
27	40	60	20
28	40	60	20
29	20	60	40
30	40	80	40
31	60	60	0
32	20	80	60
33	20	100	80
34	40	100	60
35	40	80	40
36	40	80	40
37	40	100	60
38	40	60	20
39	20	60	40
40	20	80	60
41	20	100	80
42	60	60	0
43	40	80	40
44	20	60	40
45	20	100	80
46	20	60	40
47	20	60	40
48	40	60	20
49	40	80	40
50	20	100	80
51	20	60	40
52	20	60	40
53	20	80	60
54	40	100	60
55	40	80	40
56	40	60	20
57	20	60	40
58	20	100	80
59	40	80	40
60	20	60	40

61	20	100	80
62	60	100	40
63	40	60	20
64	40	80	40
65	20	60	40
66	20	80	60
67	20	60	40
68	20	100	80
69	20	60	40
70	40	100	60
71	40	60	20
72	40	100	60
73	40	60	20
74	40	80	40
75	60	80	20
76	60	80	20
Σ	2500	5620	3120

b) Determine of differences using this formula:

$$\begin{aligned}
 X &= \frac{\sum D}{N} \\
 &= \frac{3120}{76} \\
 &= 41,052
 \end{aligned}$$

c) Calculate the deviation (Md) using formula $Md = D - Xd$:

Table 10

Score of Deviation

No	D	Md
1	40	-1,052
2	20	-21,052
3	20	-21,052
4	40	-1,052
5	40	-1,052
6	40	-1,052
7	60	18,948
8	20	-21,052

9	40	-1, 052
10	20	-21, 052
11	80	38,948
12	40	-1, 052
13	40	-1, 052
14	40	-1, 052
15	0	-41,052
16	0	-41, 052
17	20	-21, 052
18	20	-21, 052
19	40	-1, 052
20	60	18,948
21	80	38, 948
22	60	18,948
23	20	-21, 052
24	40	-1, 052
25	40	-1, 052
26	20	-21, 052
27	20	-21, 052
28	20	-21, 052
29	40	-1, 052
30	40	-1, 052
31	0	-41, 052
32	60	18,948
33	80	38,948
34	60	18,948
35	40	-1, 052
36	40	-1, 052
37	60	18,948
38	20	-21, 052
39	40	-1, 052
40	60	18,948
41	80	38,948
42	0	-41, 052
43	40	-1, 052
44	40	-1, 052
45	80	38,948
46	40	-1, 052
47	40	-1, 052
48	20	-21, 052
49	40	-1, 052
50	80	38,948
51	40	-1, 052
52	40	-1, 052

53	60	18,948
54	60	18,948
55	40	-1,052
56	20	-21,052
57	40	-1,052
58	80	38,948
59	40	-1,052
60	40	-1,052
61	80	38,948
62	40	-1,052
63	20	-21,052
64	40	-1,052
65	40	-1,052
66	60	18,948
67	40	-1,052
68	80	38,948
69	40	-1,052
70	60	18,948
71	20	-21,052
72	60	18,948
73	20	-21,052
74	40	-1,052
75	20	-21,052
76	20	-21,052
$\sum Xd = 41,052$		$\sum Md = 0,048$

d) Calculating

Table 11

Score of Quadrate Deviation

NO	Md	Sd²
1	-1,052	1,10
2	-21,052	443,18
3	-21,052	443,18
4	-1,052	1,10
5	-1,052	1,10
6	-1,052	1,10
7	18,948	359,02
8	-21,052	443,18

9	-1,052	1,10
10	-21,052	443,18
11	38,948	1.516,94
12	-1,052	1,10
13	-1,052	1,10
14	-1,052	1,10
15	-41,052	1.685,26
16	-41,052	1.685,26
17	-21,052	443,18
18	-21,052	443,18
19	-1,052	1,10
20	18,948	359,02
21	38,948	1.516,94
22	18,948	359,02
23	-21,052	443,18
24	-1,052	1,10
25	-1,052	1,10
26	-21,052	443,18
27	-21,052	443,18
28	-21,052	443,18
29	-1,052	1,10
30	-1,052	1,10
31	-41,052	1.685,26
32	18,948	359,02
33	38,948	1.516,94
34	18,948	359,02
35	-1,052	1,10
36	-1,052	1,10
37	18,948	359,02
38	-21,052	443,18
39	-1,052	1,10
40	18,948	359,02
41	38,948	1.516,94
42	-41,052	1.685,26
43	-1,052	1,10
44	-1,052	1,10
45	38,948	1.516,94
46	-1,052	1,10
47	-1,052	1,10
48	-21,052	443,18
49	-1,052	1,10
50	38,948	1.516,94
51	-1,052	1,10
52	-1,052	1,10

53	18,948	359,02
54	18,948	359,02
55	-1, 052	1,10
56	-21, 052	443,18
57	-1, 052	1,10
58	38,948	1.516,94
59	-1, 052	1,10
60	-1, 052	1,10
61	38,948	1.516,94
62	-1, 052	1,10
63	-21, 052	443,18
64	-1, 052	1,10
65	-1, 052	1,10
66	18,948	359,02
67	-1, 052	1,10
68	38,948	1.516,94
69	-1, 052	1,10
70	18,948	359,02
71	-21, 052	443,18
72	18,948	359,02
73	-21, 052	443,18
74	-1, 052	1,10
75	-21, 052	443,18
76	-21, 052	443,18
$\sum Md = 0,048$		$\sum S^2d = 32715,28$

e) Input and calculating

Table 12

Table of Coefficient T-test

NO	PRE-TEST	POST-TEST	D	Md	S ² d
1	40	80	40	-1,052	1,10
2	40	60	20	-21,052	443,18
3	40	60	20	-21, 052	443,18
4	20	60	40	-1, 052	1,10
5	20	60	40	-1, 052	1,10
6	20	60	40	-1, 052	1,10
7	20	80	60	18,948	359,02
8	40	60	20	-21, 052	443,18
9	40	80	40	-1, 052	1,10
10	40	60	20	-21, 052	443,18
11	20	100	80	38,948	1.516,94

12	20	60	40	-1,052	1,10
13	20	60	40	-1,052	1,10
14	40	80	40	-1,052	1,10
15	60	60	0	-41,052	1.685,26
16	60	60	0	-41,052	1.685,26
17	40	60	20	-21,052	443,18
18	40	60	20	-21,052	443,18
19	40	80	40	-1,052	1,10
20	20	80	60	18,948	359,02
21	20	100	80	38,948	1.516,94
22	20	80	60	18,948	359,02
23	40	60	20	-21,052	443,18
24	20	60	40	-1,052	1,10
25	40	80	40	-1,052	1,10
26	40	60	20	-21,052	443,18
27	40	60	20	-21,052	443,18
28	40	60	20	-21,052	443,18
29	20	60	40	-1,052	1,10
30	40	80	40	-1,052	1,10
31	60	60	0	-41,052	1.685,26
32	20	80	60	18,948	359,02
33	20	100	80	38,948	1.516,94
34	40	100	60	18,948	359,02
35	40	80	40	-1,052	1,10
36	40	80	40	-1,052	1,10
37	40	100	60	18,948	359,02
38	40	60	20	-21,052	443,18
39	20	60	40	-1,052	1,10
40	20	80	60	18,948	359,02
41	20	100	80	38,948	1.516,94
42	60	60	0	-41,052	1.685,26
43	40	80	40	-1,052	1,10
44	20	60	40	-1,052	1,10
45	20	100	80	38,948	1.516,94
46	20	60	40	-1,052	1,10
47	20	60	40	-1,052	1,10
48	40	60	20	-21,052	443,18
49	40	80	40	-1,052	1,10
50	20	100	80	38,948	1.516,94
51	20	60	40	-1,052	1,10
52	20	60	40	-1,052	1,10
53	20	80	60	18,948	359,02
54	40	100	60	18,948	359,02
55	40	80	40	-1,052	1,10

56	40	60	20	-21,052	443,18
57	20	60	40	-1,052	1,10
58	20	100	80	38,948	1.516,94
59	40	80	40	-1,052	1,10
60	20	60	40	-1,052	1,10
61	20	100	80	38,948	1.516,94
62	60	100	40	-1,052	1,10
63	40	60	20	-21,052	443,18
64	40	80	40	-1,052	1,10
65	20	60	40	-1,052	1,10
66	20	80	60	18,948	359,02
67	20	60	40	-1,052	1,10
68	20	100	80	38,948	1.516,94
69	20	60	40	-1,052	1,10
70	40	100	60	18,948	359,02
71	40	60	20	-21,052	443,18
72	40	100	60	18,948	359,02
73	40	60	20	-21,052	443,18
74	40	80	40	-1,052	1,10
75	60	80	20	-21,052	443,18
76	60	80	20	-21,052	443,18
Σ	2500	5620	41,052	0,048	32715,28

$$t = \frac{Xd}{\sqrt{\frac{\sum s^2 d}{N(N-1)}}}$$

$$t = \frac{41,052}{\sqrt{\frac{32715,28}{76(76-1)}}}$$

$$= \frac{41,052}{\sqrt{\frac{32715,28}{76(75)}}}$$

$$= \frac{41,052}{\sqrt{\frac{32715,28}{5700}}}$$

$$= \frac{41,052}{\sqrt{5,739}}$$

$$= \frac{41,052}{2,39}$$

$$= 17,17$$

Based on the above calculation, the t-test between the result of the use of picture series in pre-test and post-test above, the t-test is 17,17.

B. Hypothesis Testing

In this study, the researchers used a significance level of 5%. If the value of t_0 is more grather than t_{table} , means the hypothesis alternative is accepted. Meanwhile, if the value of t_0 is smaller than t_{table} , then it means that is rejected.

The formula for determining the DF (degree of freedom) is $N-1$ where N is the number of research participants. In this study, the number of students who participated were 76 students. So, if following the DF formula : $76-1=75$.

After knowing the t_0 is 17,17, the next step is compared with the 1.992 t_{table} , so the researcher concludes if te hypothesis alternative is accepted because $t_0 > t_{table}$ ($17,17 > 1.992$) and the null hypothesis was rejected.

From the statement above, it explain that the hypothesis alternative is accepted that the use of picture series for speaking in storytelling is proven to make students better at speaking.

In this study, the researcher discusses whether students who learn to use picture series in storytelling a better speaking ability. This study uses a test (pre-test and post-test). The researcher will look at the pre-test scores (before the teacher teaches using picture) and post-test (after the teacher teaches using picture).

In this study, the researcher uses a quantitative approach, in which this quantitative approach the researcher goes to the field and analyzes the data until it is written using formulas, calculations and numerical data. While the experiment used in this study is a pre-experimental design.

The teacher applies one treatment to students, before the teacher applies the treatment, the researcher gave a pre-test to the students. The first treatment was on Wednesday, March 02,2022 at 07.30 in class X-A, then the teacher continued on Saturday, March 12,2022 at 08.30 in class X-B, and continued on Wednesday, March 16,2022 at 10.00 in class X-C. After the teacher gives the treatment, the researcher gave a post-test to the students to get the data.

The use of this picture series in storytelling will see how far one's abilities are students speak and can find out the vocabulary abilities of the students themselves. Using picture series in this study, the teacher and I saw the students getting more enthusias and very active with each other.

The researcher took 76 students as the sample studied and the researcher used t-test in analyzing the data. The obtained data, researcher used test (pre-test and post-test). And the t-value obtained using the t-test formula is 17,17. The value 17,17 is

value of the effectiveness of the treatment given by the researcher to the students as a sample.

The main purpose of this study was to see the results of the treatment values carried out in each class, and to find out the results of the t value obtained by 17,17 higher or lower with the t_{table} value.

In accordance with the problem of this research, students who learn to use series picture get a better understanding in class X of Mts Miftahul Ulum Ambunten, because based on the data presented in the previous point, the post-test score is higher than the pre-test score that has been done by students class X Mts Miftahul Ulum. In this study the alternative hypothesis was accepted because the result of the true research significance was 5%.

Based on the data above, the use of picture series in storytelling provides an increase in better speaking skills for students of class X Mts Miftahul Ulum Ambunten, students feel excited and are always active in class during the treatment, students have new energy to continue learning in a different way, also the students did not experience any difficulties during the lesson, they also often helped and worked together in teams and asked each other questions and answers.