

CHAPTER IV

RESULT OF THE RESEARCH

1. Description of the Data Test

As the research has stated that the purpose of this research is to find out what kind of testing will be more effective to be used riddle game to improve students' speaking ability. In order to know this the researcher conducted field research.

The research held in MA Darul Falah Ciloang for second years. In those class XI A with total number of students are 30 and the total number of class XI B are 30 students. The researcher took the sample from all students between class XI A as the experimental class and class XI B as the control class. The goal of this research is intended to find out the accurate data in accordance with the research title.

1. The students' speaking ability before using Riddle game.
2. The effectiveness of teaching English by using riddle game to developing speaking ability at the second grade of MA Darul Falah Ciloang"

The quantitative data consist of two variable, there are: riddle game as X variable (independent variable) and Developing students' speaking ability as Y variable (dependent variable).

a. The Score Pre-test for Experimental Class XI A

Table 4. 1

No	Names of Students	Accent	Grammar	Vocabulary	Fluency	Comprehension	Score	Level
1	AL	1	6	4	2	4	17	0+
2	ALI	1	6	4	2	4	17	0+
3	AR	1	6	4	2	4	17	0+
4	AM	2	6	8	4	12	32	1
5	ARI	1	6	8	2	8	25	0+
6	FIR	2	6	8	2	12	30	1
7	HE	1	6	4	2	4	17	0+
8	II	1	6	8	2	8	25	0+
9	IK	1	6	4	2	4	17	0+
10	LI	2	12	8	6	12	40	1+
11	MU	1	6	8	2	8	25	0+
12	MM	2	18	8	8	12	46	2
13	MR	2	6	8	2	12	30	1
14	MA	2	12	8	4	8	34	1+
15	MRI	2	18	8	6	12	46	2
16	MD	2	6	8	2	12	30	1
17	NCA	1	6	4	2	4	17	0+
18	ROS	1	6	8	2	4	21	0+
19	SK	2	6	8	4	12	32	1

No	Names of Students	Accent	Grammar	Vocabulary	Fluency	Comprehension	Score	Level
20	SU	2	6	8	4	12	32	1
21	ST	2	6	8	4	12	32	1
22	SY	2	6	8	4	12	32	1
23	SRP	2	6	8	4	12	32	1
24	SBR	2	6	8	4	12	32	1
25	TR	1	6	8	2	4	21	0+
26	TBA	1	6	8	2	4	21	0+
27	TA	2	6	8	2	12	30	1
28	TT	2	6	8	2	12	30	1
29	TB	1	6	4	2	4	17	0+
30	TN	2	6	8	2	12	30	1
	Σ	47	216	212	90	264	827	-
	\bar{X}	1.57	7.2	7.07	3	8.8	27.57	-

Based on the table above writer can be concluded that result of pre-test in experimental class shows that all of student or about 30 students get lows score with mean score is 27.57.

b. The Sore Post-test for Experimental XI B

Table 4. 2

No	Names of Students	Accent	Grammar	Vocabulary	Fluency	Comprehension	Score	Level
1	AH	2	6	8	2	12	30	1
2	AMS	2	6	8	2	12	30	1
3	ASB	2	6	8	2	12	30	1
4	DI	2	18	12	6	12	50	2
5	DAD	3	24	12	6	15	60	2+
6	IDS	2	18	12	6	12	50	2
7	IM	1	6	8	2	8	25	0+
8	LS	2	12	8	6	15	42	1+
9	MR	1	6	8	2	8	25	0+
10	MFA	2	18	12	6	12	50	2
11	MY	2	12	8	6	12	40	1+
12	MRS	3	24	12	6	15	60	2+
13	NP	2	18	12	6	12	50	2
14	NH	2	18	12	6	12	50	2
15	RN	3	24	12	6	15	60	2+
16	RR	2	18	12	6	12	50	2
17	SR	1	6	8	2	8	25	0+
18	SA	2	18	12	6	12	50	2
19	STA	2	18	12	6	12	50	2

No	Names of Students	Accent	Grammar	Vocabulary	Fluency	Comprehension	Score	Level
20	SN	2	18	12	6	12	50	2
21	ST	2	18	12	6	12	50	2
22	SO	2	18	12	6	12	50	2
23	SRP	2	18	12	6	12	50	2
24	SBR	2	18	12	6	12	50	2
25	TR	2	18	12	6	12	50	2
26	TBA	2	18	12	6	12	50	2
27	TA	2	18	12	6	12	50	2
28	TT	2	18	12	6	12	50	2
29	TB	1	6	8	2	8	25	0+
30	TN	2	12	8	6	12	40	1+
	Σ	59	456	320	152	356	1342	-
	\bar{x}	1.97	15.2	10.67	5.07	11.8	44.73	-

Based on the table above writer can be concluded that result of post-test in experimental class shows that all of student or about 30 students get high score with mean score is 44.73 Increase 17.16 point from value before (pre test).

c. The Result of Speaking Level in Pre-test

Table 4. 3

Score	Frequency	Level	Percentage
16-25	13	0+	43.33
26-32	13	1	43.33
33-42	2	1+	6.67
43-52	2	2	6.67
53-62	-	2+	
63-72	-	3	-
73-82	-	3+	-
83-92	-	4	-
93-99	-	4+	-
SUM	30	-	100
Average		1	27.57

In this activities, the writer found that thirteen students (43.33%) got score between 16-25 and the position of speaking proficiency level or ranting in level 0+ and thirteen students (43.33%) got score between 26-32 and the position of speaking proficiency in level 1. It is showed from the students that they only could ask and answer on very familiar topics.

Two students (6.67%) got score between 33-42 and the position of speaking level or rating in level 1+, in this level students able to satisfy minimum courtesy requirements. Can ask and answer questions on very familiar topics; within the scope of his or her very limited language experience can understand

simple question or statement error in pronunciation and grammar are frequent but can be understood by native speaker.

Two students (6.67%) got score between 43-52 and the position of speaking level or rating in level 2, in this level students able to interact with social community with out giving example for conversation but the grammar that the students used uncontrolled or students still lack of grammar. And the average score that students got is 27.57 and the position speaking level or rating in level 1.

Based on the result of pre-test the writer knew that students could follow teaching learning process well, but some students did not perform well, some students still doubt and require frequent repetition speak English.

d. The Result of Speaking Level in Post test

Table 4.4

X	Frequency	Level	Percentage
16-25	4	0+	13.33
25-32	3	1	10
33-42	3	1+	10
43-52	17	2	56.67
53-62	3	2+	10
63-72	-	3	-
73-82	-	3+	-
83-92	-	4	-
93-99	-	4+	-
SUM	21		100

Average		2	44.73
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In this activities, the writer found that four students (13.33%) got score between 16-25 and the position of speaking proficiency level or ranting in level 0+, and three students (10%) got score between 26-32 and the position of speaking proficiency in level 1. It is showed from the students that they only could ask and answer on very familiar topics.

Three students (10%) got score between 33-42 and the position of speaking proficiency in level 1+, in this level students able to satisfy minimum courtesy requirements. Can ask and answer questions on very familiar topics; within the scope of his or her very limited language experience can understand simple question or statement error in pronunciation and grammar are frequent but can be understood by native speaker.

Seventeen students (56.67%) got score between 43-52 and the position of speaking level or rating in level 2, in this level students able to interact with social community with out giving example for conversation but the grammar that the students used uncontrolled or students still lack of grammar. Three students (10%) got score between 53-62 and the position of speaking level or rating in level 2+, in this level students able to conclude the conversations on non technical subject or daily conversation and they have some vocabulary to express themselves. And the average score that students got is 44.73 and the position speaking level or rating in level 2.

Based on the result of pre-test and post-test the writer knew that by riddle game students also could follow teaching learning process well, it can be seen from the result of improvement in students' achievement in speaking test or activity.

e. The Score Pre test for Control Class XI A

Table 4.5

No	Names of Students	Accent	Grammar	Vocabulary	Fluency	Comprehension	Score	Level
1	AI	0	6	4	2	4	16	0+
2	AF	1	6	4	2	4	17	0+
3	AMY	1	6	4	2	4	17	0+
4	AR	2	12	8	6	15	42	1+
5	AM	2	6	8	2	12	30	1
6	DRP	2	6	8	2	12	30	1
7	DR	1	6	4	2	4	17	0+
8	DN	2	12	8	6	12	40	1+
9	IF	2	12	8	6	15	42	1+
10	KT	1	6	4	2	4	17	0+
11	MF	2	6	8	2	12	30	1
12	MN	1	6	8	2	8	25	0+
13	MS	2	12	8	6	12	40	1+
14	MIS	2	12	8	6	12	40	1+

15	MK	2	6	8	2	12	30	1
16	MG	1	6	4	2	4	17	0+
17	RN	2	12	8	6	12	40	1+
18	RRD	1	6	4	2	4	17	0+
19	RR	1	6	4	2	4	17	0+
20	RU	1	6	4	2	4	17	0+
21	RN	1	6	4	2	4	17	0+
22	RP	2	6	8	2	12	30	1
23	RB	2	6	8	2	12	30	1
24	SJ	2	12	8	6	12	40	1+
25	SS	2	12	8	6	12	40	1+
26	SR	1	6	4	2	4	17	0+
27	SP	1	6	4	2	4	17	0+
28	TQ	1	6	4	2	4	17	0+
29	TF	1	6	4	2	4	17	0+
30	TN	1	6	4	2	4	17	0+
	Σ	43	228	180	92	242	783	-
	\bar{X}	1.43	7.6	60	3.07	8.07	26.1	

Based on the table above writer can be concluded that result of pre-test in control class shows that all of student or about 30 students get lows score with mean score is 26.1.

f. The Score Post-test for Control Class XI B

Table 4. 6

No	Names of Students	Accent	Grammar	Vocabulary	Fluency	Comprehension	Score	Level
1	AI	2	6	4	2	4	18	0+
2	AF	2	6	4	2	4	18	0+
3	AMY	2	6	4	2	4	18	0+
4	AR	2	18	12	6	12	50	2
5	AM	2	6	8	2	12	30	1
6	DRP	2	6	8	4	12	32	1
7	DR	2	6	4	2	4	18	0+
8	DN	2	18	8	6	8	42	1+
9	IF	3	18	8	6	8	43	2
10	KT	2	6	4	2	4	18	0+
11	MF	2	6	8	2	12	30	1
12	MN	1	6	8	2	8	25	0+
13	MS	2	18	8	6	8	42	1+
14	MIS	2	12	8	6	12	40	1+
15	MK	2	6	8	2	12	30	1
16	MG	2	6	4	2	4	18	0+
17	RN	2	12	8	6	12	40	1+
18	RRD	2	6	4	2	4	18	0+
19	RR	2	6	4	2	4	18	0+

20	RU	2	6	4	2	4	18	0+
21	RN	2	6	4	2	4	18	0+
22	RP	2	6	8	2	12	30	1
23	RB	2	6	8	2	12	30	1
24	SJ	2	18	8	6	8	42	1+
25	SS	2	18	8	6	8	42	1+
26	SR	2	6	4	2	4	18	0+
27	SP	2	6	4	2	4	18	0+
28	TQ	2	6	4	2	4	18	0+
29	TF	2	6	4	2	4	18	0+
30	TN	2	6	4	2	4	18	0+
	Σ	60	264	184	94	216	818	-
	\bar{X}	2	8.8	6.13	3.13	7.2	27.26	-

Based on the table above writer can be concluded that result of pre-test in control class shows that all of student or about 30 students get high score with mean score is 27.26 increase 1.16 point from value before (Pre-test).

2. Analyzing of Data Research

a. The Result of Pre Test and Post Test Experimental Class

The student's score of class XI A as the experimental class obtained 27.57 for mean of pre-test and 44.73 for mean of post-test. The score of pre-test and post-test will be describes in the following table :

The Result Pre-test and Post-test of Experimental class

Table 4.7

No	Names of Student's	Pre Test	Post Test
1	AH	17	30
2	AMS	17	30
3	ASB	17	30
4	DI	32	50
5	DAD	25	60
6	IDS	30	50
7	IM	17	25
8	LS	25	42
9	MR	17	25
10	MFA	40	50
11	MY	25	40
12	MRS	46	60
13	NP	30	50
14	NH	34	50
15	RN	46	60
16	RR	30	50
17	SR	17	25
18	SA	21	50
19	STA	32	50
20	SN	32	50
21	ST	32	50
22	SO	32	50

23	SPR	32	50
24	SBR	32	50
25	TR	21	50
26	TBS	21	50
27	TA	30	50
28	TT	30	50
29	TB	17	25
30	TN	30	40
	Σ	827	1342

Mean of Pre-Test :

$$M_{X_1} = \frac{\Sigma f_{X_1}}{N} = \frac{827}{30} = 27.57$$

30

Mean of Post Test :

$$M_{X_2} = \frac{\Sigma f_{X_2}}{N} = \frac{1342}{30} = 44.73$$

30

Based on explanation above, it shows that the result of experiment class got the significant improvement after giving treatment, it's seen from the average score of post-test is better than the average score of pre-test, that is $44.73 > 27.57$. The students' improvement score caused by the writer used riddle game in teaching learning process during fourth meeting. It is seen from the students' improvement score it means that the technique used is success in improving students' speaking ability.

b. The Score of Pre-test and Post-test for Control Class

The student's score of class XI b as the control class obtained 26.1 for mean of pre-test and 27.26 for mean of post-test. The score of pre-test and post-test will be describes in the following table :

The Result Pre-test and Post-test of Control class

Table 4.8

No	Names of Students	Pre-test	Post-test
1	AI	16	18
2	AF	17	18
3	AMY	17	18
4	AR	42	50
5	AM	30	30
6	DRP	30	32
7	DR	17	18
8	DN	40	42
9	IF	42	43
10	KT	17	18
11	MF	30	30
12	MN	25	25
13	MS	40	42
14	MIS	40	40
15	MK	30	30
16	MG	17	18
17	RN	40	40

18	RRD	17	18
19	RR	17	18
20	RU	17	18
21	RN	17	18
22	RP	30	30
23	RB	30	30
24	SJ	40	42
25	SS	40	42
26	SR	17	18
27	SP	17	18
28	TQ	17	18
29	TF	17	18
30	TN	17	18
	Σ	783	818

Mean of Pre-test :

$$M_{Y_1} = \frac{\Sigma f_{Y_1}}{N} = \frac{783}{30} = 26.1$$

30

Mean of Post-test :

$$M_{Y_2} = \frac{\Sigma f_{Y_2}}{N} = \frac{818}{30} = 27.26$$

30

Based on explanation above, it shows that the result of control class did not have the significant improvement. It is seen from the average score of pre-test and post test, that is 26.1 and 27.26. It caused the control class did not using riddle game in the learning activity.

c. The Result Calculation of Post-Test at the Experimental class and Control Class

Table 4.9

No	X ₂ (Post-test X)	Y ₂ (Post-test Y)	X ₁ = (X ₂ -M _{x2})	Y ₂ = (Y ₂ -M _{y2})	X ₂ ²	Y ₂ ²
1	30	18	-14.73	-9.26	216.9	85.7
2	30	18	-14.73	-9.26	216.9	85.7
3	30	18	-14.73	-9.26	216.9	85.7
4	50	50	5.27	22.74	27.77	517.1
5	60	30	15.27	2.74	233.17	7.50
6	50	32	5.27	4.74	27.77	19.9
7	25	18	-19.73	-9.26	389.2	85.7
8	42	42	-2.73	14.47	7.45	209.3
9	25	43	-19.73	15.74	389.2	247.7
10	50	18	5.27	-9.26	27.77	85.7
11	40	30	-4.73	2.74	22.37	7.50
12	60	25	15.27	-2.26	233.17	5.10
13	50	42	5.27	14.47	27.77	209.3
14	50	40	5.27	12.74	27.77	162.3
15	60	30	15.27	2.74	233.17	7.50
16	50	18	5.27	-9.26	27.77	85.7
17	25	40	-19.73	12.74	389.2	162.3
18	50	18	5.27	-9.26	27.77	85.7

19	50	18	5.27	-9.26	27.77	85.7
20	50	18	5.27	-9.26	27.77	85.7
21	50	18	5.27	-9.26	27.77	85.7
22	50	30	5.27	2.74	27.77	7.50
23	50	30	5.27	2.74	27.77	7.50
24	50	42	5.27	14.47	27.77	209.3
25	50	42	5.27	14.47	27.77	209.3
26	50	18	5.27	-9.26	27.77	85.7
27	50	18	5.27	-9.26	27.77	85.7
28	50	18	5.27	-9.26	27.77	85.7
29	25	18	-19.73	-9.26	389.2	85.7
30	40	18	-4.73	-9.26	22.37	85.7
Σ	1342	818			3431.29	3274.6

After that the writer calculated them based the t-test formula :

- a. $M_{x_2} = 44.73$
- b. $M_{y_2} = 27.26$
- c. $\sum X_2^2 = 3431.29$
- d. $\sum Y_2^2 = 3274.6$
- e. $df = N_1 + N_2 - 2 = 30 + 30 - 2 = 58$

f.

$$t_o = \frac{M_{x_2} - M_{y_2}}{\sqrt{\left\{ \frac{\sum X_2^2 + Y_2^2}{N_1 + N_2 - 2} \right\} \left\{ \frac{N_1 + N_2}{N_1 \cdot N_2} \right\}}}$$

$$t_o = \frac{44.73 - 27.26}{\sqrt{\left\{ \frac{\sum 3431.29 + 3274.6}{30 + 30 - 2} \right\} \left\{ \frac{30 + 30}{30 \cdot 30} \right\}}}$$

$$t_o = \frac{17.47}{\sqrt{\left\{ \frac{6705.89}{58} \right\} \left\{ \frac{60}{900} \right\}}}$$

$$t_o = \frac{17.47}{\sqrt{\{115.6\} \{0,06\}}}$$

$$t_o = \frac{17.47}{\sqrt{6.93}} = \frac{17.47}{2.63} = 6.64$$

To prove it the data obtained from the experimental class and control class are calculated with assumption as follow :

If $t_{\text{observation}} > t_{\text{table}}$ the alternative hypothesis is accepted. It means there is significant influence in using riddle game at the second grade MA Darul Falah Ciloang. If $t_{\text{observation}} < t_{\text{table}}$ the alternative hypothesis is rejected. It means there is no significant influence in riddle game at second grade of MA Darul Falah Ciloang

From the result of the calculation above, it is obtained that value of t_o ($t_{\text{observation}}$) is **6.64** degree of freedom (df) is 58. There is no degree of freedom for 58, so the writer uses the closer df from 60. In degree of significance 5 % from 60 ($t_{\text{table}} = 2.00$), in degree of significance 1 % from 60 ($t_{\text{table}} = 2.66$).

After get the data, the writer compared it with t_t (t_{table}) both in degree significance 5% and 1% . Therefore, $t_0 : t_t = 6.64 > 2,00$ in degree of significance 5% and $t_0 : t_t = 6.64 > 2,66$ in degree of significance 1%.

The statistic hypothesis states that if t_0 is higher than t_t , it shows that H_a (alternative hypothesis) of the result is accepted and H_0 (null hypothesis) is rejected. It means that there is significant influence in using riddle game in teaching speaking at the second grade of MA Darul Falah Ciloang

3. Data interpretation

In the class XI A as experimental class, the highest score pre-test was 46 and the lowest score was 17. The highest score was 60 and the lowest score was 25. The mean of pre test score obtained by students in this class was 27.57 and the mean post-test was 44.73. The mean of pre-test and post-test score has good enough improvement it seen by $44.73 > 27.57$. The improvement caused by the experimental class have learning during fourth meeting using riddle game that not used by teacher before.

In class XI B automatic as control class, the highest score of pre-test was 42 and the lowest score was 16. The highest score of post test was 50 and the lowest score was 18. The mean of pre-test and post-test in this class was 26.1 and 27.26. There is no significant improvement of the result in this class, it seen from the mean that is 27.26 and 26.1 which improve 1.16 score. It caused by the control class did not using riddle game in learning activity.