

## CHAPTER IV

### FINDINGS AND DISCUSSION

#### A. Findings

This sub chapter presents the data that have been collected in the research. This research aims to answer the statements of problem. To solve the problems, the researcher used test and observation sheet. She conducted the research on July 13<sup>th</sup> – September 13<sup>th</sup> 2017 at Class VA and VB of SDN Kebun Raya 1 Kintap in academic year 2017/2018. The total number of both Class VA and VB are 42 students. The following writing is presented to describe and discuss the data.

#### **1. The Pre Test Result about Students' Mastery in Vocabulary of the Fifth Grade at SDN Kebun Raya 1 Kintap in Experiment Class and Control Class**

To know the students' mastery in vocabulary before the researcher applied games. The researcher gave written test as pre test for the students in experiment and control class on Thursday, July 20<sup>th</sup> 2017. It was done for 70 minutes to answer 12 similar questions in both classes.

##### **a) The Pre Test Result in Control Class**

Based on the result of pre test in VB as control class, it can be seen in Table 4.1. It showed the students' achievement in answering matching test which consist 12 items of questions.

Table 4.1: The Students' Pre Test Result in Control Class

No	Students	Matching Test	Score
1.	Adam Prasetya	33,2	33,2
2.	Akhmad Rifa'i	16,6	16,6
3.	Arfan Khalif Ahmad	66,4	66,4
4.	Bagus Danu Ramadhan	66,4	66,4
5.	Endang Tri Puspitasari	24,9	24,9
6.	Evi Retno Wulandari	41,5	41,5
7.	Habibi Bahari	83	83
8.	Laras Kinanti	74,7	74,7
9.	Maulana Ramadhani	24,9	24,9
10.	Muhamad Ahsan	83	83
11.	Muhammad Sazwan	74,7	74,7
12.	Muhammad Syamsudin	58,1	58,1
13.	Nabila Sa'dah	91,3	91,3
14.	Nadia Novita Wahyuni	41,5	41,5
15.	Nur Hidayah Sholihah	74,7	74,7
16.	Rahman	16,6	16,6
17.	Raihan Rais	91,3	91,3
18.	Revananda	41,5	41,5
19.	Ridho Akbar	66,4	66,4
20.	Said Syahrudin	41,5	41,5
21.	Samsul	41,5	41,5
22.	Shofia Fitriana Rahmah	24,9	24,9
Total		1178,6	
Mean Score		53,57	

The table 4.1 described the results of matching test from 22 students. The highest score is 91,3 and the lowest score is 16,6. This results showed that the students could answer 11 items

correctly for the highest score and 2 items for the lowest score. The mean score could be seen in the formula below, that is 53,57.

$$M = \frac{\sum x}{n} = \frac{1178,6}{22} = 53,57$$

Therefore, it can be concluded that students' mastery in control class of fifth grade at SDN Kebun Raya 1 Kintap is classified in poor category.

#### b) The Pre Test Result in Experiment Class

Based on the result from pre test of VA as experiment class, students' achievement in answering 12 items of matching question can be seen on table 4.2.

Table 4.2: The Students' Pre Test Result in Experiment Class

No	Students	Matching Test	Scores
1.	Afita Eliyana	33,2	33,2
2.	Ahmad Arif Rafiansyah	49,8	49,8
3.	Ahmad Mufarid	24,9	24,9
4.	Ahmad Mujahid Subhi	41,5	41,5
5.	Askira Fira Adam	33,2	33,2
6.	Atin Yuni Fauziah	33,2	33,2
7.	Bayu Irawan	41,5	41,5
8.	Bela Tri Agustina	83	83
9.	Bima Dwi Subekti	66,4	66,4
10.	Bunga Meyridha	49,8	49,8
11.	Claudia Nuria Karim	24,9	24,9

12.	Danu Wibisono	41,5	41,5
13.	Dwi Nur Irmayanti	58,1	58,1
14.	Elita Novi Nurdianti	33,2	33,2
15.	Emi Madhicator Rahman	66,4	66,4
16.	Hasbi Ash Shidiqi	58,1	58,1
17.	Jesika Amanda	58,1	58,1
18.	Kelfin Sofatudin	66,4	66,4
19.	Keren Dwi Martha	83	83
20.	Kiki Galuh Purnamasari	66,4	66,4
Total			979,4
Mean Score			48,97

Table 4.2 described the results of matching test from 20 students. The highest score was 83 and the lowest score was 24,9. This results showed that the students could answer 10 items correctly for the highest score and 3 items for the lowest score. In addition, based on calculation, the mean score of pre test was 48,97 as seen in following formula.

$$M = \frac{\sum x}{n} = \frac{979,4}{20} = 48,97$$

that students' mastery in experiment class of fifth grade at SDN Kebun Raya 1 Kintap is classified in very poor category.

### c) Description of the Students' Pre Test in Control Class and Experiment Class of the Fifth Grade at SDN Kebun Raya 1 Kintap

The pre test was conducted on the first meeting of both classes. Out of that, the students who did pre test were found that control class was in poor category and the experiment class was

in very poor category. Then, the description of students' pre test result can be seen on the following table:

Table 4.3: Description of the Students' Pre Test

No	Category	Control Class	Experiment Class
1.	Highest Score	91,3	83
2.	Lowest Score	16,6	24,9
3.	Mean	53,57	48,97
4.	Standard Deviation	24,66	17,92

The table 4.3 showed the results of students' pre test description in control class and experiment class. For the control class, the highest score is 91,3, the lowest score is 16,6, mean is 53,57 and standard deviation is 24,66. The highest score for experiment class is 83, the lowest score is 24,9, mean is 48,97 and standard deviation is 17,92. In addition, based on the highest and lowest scores, mean and standard deviation in control and experiment class were different as well.

## **2. The Post Test Result about the Students' Mastery in Vocabulary of the Fifth Grade at SDN Kebun Raya 1 Kintap in Control Class and Experiment Class**

To know the students' mastery in vocabulary by using games, the researcher also used matching test and asked the teacher to used games in teaching and learning process for experiment class and without used games in control class. For this research, the researcher needs 3 weeks to conducted the research, the first meeting on July, 27<sup>th</sup> 2017, the second meeting on August, 3<sup>th</sup> 2017, and the third meeting on August, 10<sup>st</sup> 2017. To know the rising score and students' mastery in vocabulary teaching after using games and without using games the

researcher gave post test to the students. In other side, to support the data of post test result the researcher also used observation to know actively in teaching and learning English process has been done through observation of teacher's activity and observation of students' activity.

#### a) The Post Test Result in Control Class

Based on the post test result in VB as control class, it showed students' achievement in answering matching test, which consist 17 items of questions. It can be presented in the following table.

Table. 4.4.The students' post test result in control class

No	Students	Matching Test	Score
1.	Adam Prasetya	64,68	64,68
2.	Akhmad Rifa'i	64,68	64,68
3.	Arfan Khalif Ahmad	52,92	52,92
4.	Bagus Danu Ramadhan	82,32	82,32
5.	Endang Tri Puspitasari	64,68	64,68
6.	Evi Retno Wulandari	52,92	52,92
7.	Habibi Bahari	70,56	70,56
8.	Laras Kinanti	82,32	82,32
9.	Maulana Ramadhani	70,56	70,56
10.	Muhamad Ahsan	41,16	41,16
11.	Muhammad Sazwan	76,44	76,44
12.	Muhammad Syamsudin	64,68	64,68
13.	Nabila Sa'dah	64,68	64,68
14.	Nadia Novita Wahyuni	82,2	82,2
15.	Nur Hidayah Sholihah	94,8	94,8
16.	Rahman	88,2	88,2

17.	Raihan Rais	76,44	76,44
18.	Revananda	64,68	64,68
19.	Ridho Akbar	76,44	76,44
20.	Said Syahrudin	41,16	41,16
21.	Samsul	82,32	82,32
22.	Shofia Fitriana Rahmah	94,8	94,8
Total		1553,64	
Mean Score		70,62	

The table 4.4 described the result of matching test from 22 students. The highest score is 94,8 and the lowest score is 41,16. This result showed that the students could answer 16 items correctly for the highest score and 7 items for the lowest score. In addition, based on the calculation, the mean score of post test is 70,62 as seen in following formula.

$$M = \frac{\sum x}{n} = \frac{1553,64}{22} = 70,62$$

It can be concluded that students' mastery in control class of the fifth grade at SDN Kebun Raya 1 Kintap can be classified in good category.

#### **b) The Post Test Result in Experiment Class**

Based on the post test result in VA as experiment class, has been presented in the Table 4.5. It showed students' achievement in answering the matching test, which consist 17 items questions.

Table 4.5. The students' post test result in experiment class

No	Students	Matching Test	Scores
1.	Afita Eliyana	94,8	94,8

2.	Ahmad Arif Rafiansyah	88,32	88,32
3.	Ahmad Mufarid	94,8	94,8
4.	Ahmad Mujahid Subhi	70,56	70,56
5.	Askira Fira Adam	88,2	88,2
6.	Atin Yuni Fauziah	88,2	88,2
7.	Bayu Irawan	82,32	82,32
8.	Bela Tri Agustina	94,8	94,8
9.	Bima Dwi Subekti	70,56	70,56
10.	Bunga Meyridha	100	100
11.	Claudia Nuria Karim	88,2	88,2
12.	Danu Wibisono	82,32	82,32
13.	Dwi Nur Irmayanti	88,2	88,2
14.	Elita Novi Nurdianti	70,56	70,56
15.	Emi Madhicatur Rahman	94,8	94,8
16.	Hasbi Ash Shidiqi	88,2	88,2
17.	Jesika Amanda	82,32	82,32
18.	Kelfin Sofatudin	100	100
19.	Keren Dwi Martha	94,8	94,8
20.	Kiki Galuh Purnamasari	100	100
Total			1761,96
Mean Score			88,098

The table 4.5 described the result of matching test from 20 students. The highest score was 100 and the lowest score 70,56. This result showed that the students could answer 17 items correctly for the highest score and 12 items for the lowest score. In addition, based on the calculation, the mean score of post test was 88,098 as seen in following formula.

$$M = \frac{\sum x}{n} = \frac{1761,96}{20} = 88,098$$



It can be concluded that students' mastery in experiment class of the fifth grade at SDN Kebun Raya 1 Kintap can be classified in very good/excellent category.

### c) Description of Students' Post Test and Rising Score in Control Class and Experiment Class

The description of students' post test result in control and experiment class can be seen from the post test score which has given in the end of the teaching and learning process. It found that control class was in good category and experiment class can be classified in very good category. The description of students' post test in control class and experiment class can be seen in the following table:

Table 4.6. Description of the Students' Post Test

No.	Category	Control class	Experiment class
1.	Highest score	94,8	100
2.	Lowest score	41,16	70,56
3.	Mean	70,62	88,098
4.	Standard Deviation	14,67	9,38

The table 4.6 described that the highest score in control class was 94,8, the lowest score was, 41,16, the mean score was 70,62 and the standard deviation was 14,67 and the highest score in experiment class was 100, the lowest score was 70,56, the mean score was 88,098 and the standard deviation was 9,38. In other side, Base on the highest score, the lowest score, mean and

standard deviation in both control class and experiment class was different and this data can be clarified by the rising score result from pre test and post test in the both classes (control class and experiment class) that could be seen in the following table.

Table 4.7. Description of the students' rising score

No.	Class	Pre Test	Post Test	Rising Score Result
1	Control Class	53,57	70,62	17,05 Point
2	Experiment Class	48,97	88,098	39,13 Point

The table 4.7 showed that the mean score of pre test in control class is 53,57, the mean score of post test in control class is 70,62 and the rising score between pre test and post test in control class is  $53,57 > 70,62 = 17,05$  point. The mean score of pre test in experiment class is 48,97, the mean score of post test in experiment class is 88,098 and the rising score between pre test and post test in experiment class is  $48,97 > 88,098 = 39,13$  point. Based on the pre test and post test in control class and experiment class, can be seen that there is a significant rising score and it means using games in teaching vocabulary is effective. In other side, to know the different of frequency distribution of the students post test in both control class and experiment class could be seen in following table.

a) Frequency distribution of the students' post test result in control class

Table 4.8. Frequency Distribution of Students Post Test in Control Class

No.	Score	Frequency	Percentage	Category
1.	80 – 100	7	31,8%	Very Good
2.	70 - <80	5	22,7%	Good

3.	60 - <70	6	27,3%	Fair
4.	50 - <60	2	9,1%	Poor
5.	0 - <50	2	9,1%	Very poor

From the table 4.8 above, it can be seen that there were 2 students (9,1%) whose scores were around 0 - <50 that classified in very poor category. There were 2 students (9,1%) whose scores were around 50 - <60 that classified in poor category. There were 6 students (27,3%) whose scores were around 60 - <70 that classified in fair category. There were 5 students from 22 students (22,7%) whose scores were around 70 - <80 that classified in good category. And there were 7 students from 22 students (31,8%) whose scores were around 80 – 100 that classified in very good category.

b) Frequency distribution of the students' post test result in experiment class

Table 4.9. Frequency Distribution of Students Post Test in Experiment Class

No.	Score	Frequency	Percentage	Category
1.	80 – 100	17	85%	Very Good
2.	70 - <80	3	15%	Good
3.	60 - <70	0	0%	Fair
4.	50 - <60	0	0%	Poor
5.	0 - <50	0	0%	Very poor

From the table 4.9 above, it can be seen that there were no students (0%) whose scores were around 0 - <50 that classified in very poor category. There were no students (0%) whose scores were around 50 - <60 that classified in poor category. There were no students (0%) whose scores were around 60 - <70 that classified in fair category. There were 3 students from 20 students (6,7%) whose scores were around 70 - <80 that classified in good category. And there

were 17 students from 20 students (93,3%) whose scores were around 80 – 100 that classified in very good category.

## **B. Discussion**

The purpose of the study was to find out the effectiveness of using games in teaching and learning English of the fifth grade at SDN Kebun Raya 1 Kintap. The researcher used comparative study between experiment class by using games and control class without using games. After all the data have collected and processed, the researcher analyzed and concluded them by using “t-test” formula.

After the researcher calculated the post test data of both experiment class and control class (See appendix VI), it can be concluded that the mean score in experiment class was 88,098 and the control class was 70,62. Then, the researcher counted the standard deviation. Standard deviation was a measure of the dispersion of a set of data from its mean. For the standard deviation in experiment class was 9,38 and 14,67 for the control class. For the standard error in experiment class was 2,15 and the standard error in control class was 3,17. From both subject the total standard error were 3,83. Then, the researcher counted the t-test scores, and it was 4,56. After having the t-test scores, look at the t-table by counting the degree of freedom. The researcher found the df (degree of freedom), which was 40 and then consult with t table.

### **1. The Effectiveness of Using Games in Teaching and Learning English of the Fifth Grade at SDN Kebun Raya 1 Kintap Academic Year 2016/2017**

Based on the calculated above, it found the mean score of pre test result was 48,97 and the mean score of post test result was 88,098 therefore, there was a rising score from the pre test to post test. It means, used games in teaching and learning English can be classified in very good category. From the observation of teacher’s participation showed percentage score was 87,5%,

the data of the table showed that the teacher was very active in teaching and learning process and it was classified in very good category. In other hand, the percentage score of students' participation observation was 91,67%, it was concluded in very good category and the data of the table showed that the students were very active in teaching and learning process.

After the presented data on the previous sub chapter, it showed the data of post test result, there were no students (0%) whose scores were around 0 - <50 that classified in very poor category. No students (0%) whose scores were around 50 - <60 that classified in poor category. No students (0%) whose scores were around 60 - <70 that classified in fair category. There were 3 students from 20 students (15%) whose scores were around 70 - <80 that classified in good category. Also 17 students from 20 students (85%) whose scores were around 80 – 100 that classified in very good category.

## **2. The Difference in Teaching and Learning English Between Experiment Class which Taught by Using Games and Control Class which Taught Without Using Games**

The difference in teaching and learning English between experiment class which taught by using games and control class which taught without using games was significant. From the statistical measurement above showed that  $H_0$  (Null Hypothesis) was not accepted or rejected,  $H_a$  (Alternative Hypothesis) was accepted, because value of  $t_{\text{test}}$  was higher than of  $t_{\text{table}}$  (value of critic "t").  $T_{\text{table}} (5\% = 2,02) < T_{\text{test}} (4,56) > t_{\text{table}} (1\% = 2,71)$ .

According to Martinson and chu (2008, p. 478) said "games are effective tools for learning, because they offer students a hypothetical environment in which they can explore alternative decisions without the risk of failure. Thought and action are combined into purposeful behavior to accomplish a goal. Playing games teaches us how to strategize, to consider

alternatives and to think flexibly”. Because in teaching and learning process, the teacher should did test based on vocabulary that they have learned with used games.

Game had some benefit for the students, such as helped students to understand and memorized the vocabulary. It was also helped students to be more joyful, interest, and enthusiastic teaching and learning process. The researcher gave the interpretation that using games could gave an effect in teaching and learning English. Therefore, based on the result of the research in teaching and learning English by using games was better than teaching and learning English without using games. Finally, findings revealed that used games made more effective in teaching and learning English and it could be used to improved students’ mastery in vocabulary.