## CHAPTER IV

## RESEARCH FINDING AND DISCUSSION

This chapter presents the data findings of the research, covering description of data, data analysis, hypothesis testing, and discussion.

## A. The description of the Data

The researcher conducted the data collection is to know whether there was significant different between students' score before and after being taught by using Secret Message Game. In this research, the researcher did a pre-experimental research about the effectiveness of secret message game toward students' vocabulary achievement of first grade students at MTs Al Huda Bandung Tulungagung in the academic year 2015/2016. The researcher involved a class consists of 28 students. The data were obtained trough administering tests. The first was pre-test which was done before the treatment applied to the students. The purpose was to know the students' basic competence and their prior knowledge before being taught by using the treatment. The result of the pre-test showed that students' vocabulary mastery was poor. They got some difficulty to answer the questions from the test.

After administering the pre-test on March $4^{\text {th }}$ 2016, the researcher applied the treatment to the students, which was Secret Message Game in teaching vocabulary. The treatment was on March $4^{\text {th }}, 8^{\text {th }}, 11^{\text {th }}, 15^{\text {th }} 2016$. During the treatment, students enjoyed learning and enthusiastic to play the game. After the treatment was finished, the researcher administered post-test on March $15^{\text {th }} 2016$ to know students' vocabulary mastery after the treatment process. And the result of the pre-test and the post-test showed that the students' vocabulary mastery improved significantly.

The detail description of the students' scores can be seen as follows:

## 1. Students' Vocabulary Achievement Before being Taught by Using Secret Message Game.

Pre-test was followed by 28 students. The time allocation was 40 minutes to do the test. This test was administered on March $4{ }^{\text {th }} 2016$. In the pre-test, the students must answer 30 items in three different kinds of test formats. The first part is cloze test consist of 15 items. Second is matching test consist of 10 items. The last is arranging random letter and write down the meaning consist of 5 items. The total of students who took the pre-test was 28 students. The highest score in the pre-test was 80 and the lowest score was 49 . This test was intended to know the students' basic competence in vocabulary before get the treatment. The students' vocabulary achievement in pre-test was presented below:

Table 4.1 The Students' Score before being Taught by Using Secret Message Game

| No. | Students | Pre-Test Score |
| :--- | :--- | :---: |
| 1. | ARA | 85 |
| 2. | AF | 49 |
| 3. | ASJ | 58 |
| 4. | AGS | 47 |
| 5. | AS | 63 |
| 6. | DNBJ | 56 |
| 7. | FCS | 69 |
| 8. | II | 50 |
| 9. | KYN | 63 |
| 10. | LM | 66 |
| 11. | MH | 76 |
| 12. | MAD | 80 |
| 13. | MAAH | 46 |
| 14. | MZS | 73 |
| 15. | MAA | 54 |
| 16. | MIF | 80 |
| 17. | MYT | 78 |
| 18. | NAK | 67 |
| 19. | QM | 62 |
| 20. | RO | 63 |
| 21. | RAS | 70 |
| 22. | SMS | 60 |
| 23. | UA | 54 |
| 24. | UMC | 62 |
| 25. | WIP | 55 |
| 26. | WRHGP | 72 |
| 27. | ZRP | 64 |
| 28. | ZA | 56 |
|  |  |  |

The data of students' pre-test, then were arranged in the form of frequency and percentages through score's criteria, as they were presented below:

Table 4.2 The Percentage of Students' Score in Pre-Test

| Grade | Range of Score | Frequency (f) | Percentage (p) |
| :---: | :---: | :---: | :---: |
| A | $91-100$ | - | - |
| B | $81-90$ | 1 | $4 \%$ |
| C | $71-80$ | 6 | $21 \%$ |
| D | $61-70$ | 10 | $36 \%$ |
| E | $51-60$ | 7 | $25 \%$ |
| F | $41-50$ | 4 | $14 \%$ |
| G | $0-40$ | - | - |
|  | $\Sigma f=28$ | $\Sigma p=100 \%$ |  |

Based on the table above, the criteria of students' scores in pre-test were presented as follows:

Table 4.3 The Criteria of Students' Score

| No. | Score's Range | Grade | Criteria |
| :---: | :---: | :---: | :---: |
| 1. | $91-100$ | A | Excellent |
| 2. | $81-90$ | B | Very Good |
| 3. | $71-80$ | C | Good |
| 4. | $61-70$ | D | Fair |
| 5. | $51-60$ | E | Enough |
| 6. | $41-50$ | F | Poor |
| 7. | $0-40$ | G | Very Poor |

From the table 4.2 and 4.3 above, it can be concluded that the average of students' achievement in pre-test were; very good criteria $4 \%$ in the score's range $81-$ 90 with grade B, good criteria $21 \%$ in the score's range 71-80 with grade C while fair criteria $36 \%$ in the score's range $61-70$ with grade D, enough criteria $25 \%$ in
the score's range 51-60 with grade E, poor criteria $14 \%$ in the score's range 41-50 with grade F. It can be seen that the majority of the students got score under the average.

Meanwhile, the descriptive statistic of pre-test which consisted of mean, median, and mode were presented below:

## Table 4.4 Descriptive Statistic of Pre-Test Score

| Statistics |  |
| :---: | :---: |
| VAR00001 |  |
| N Valid | 28 |
| Missing |  |
| Mean | 63.5000 |
| Median | 63.0000 |
| Mode | 63.00 |
| Std. Deviation | 1.05602 E 1 |
| Minimum | 46.00 |
| Maximum | 85.00 |
| Sum | 1778.00 |

The table 4.4 above showed that the students consisted of 28 students. The mean of the score was 63.5. This meant that the average of 28 students got score 63.5 . Meanwhile, the median score was 63.00 , the mode score was 63.00 . The mode meant that the score has the highest frequency. Then the standard deviation was 1.05602 .

Also, the table showed minimum score was 46.00 , which were the lowest score. And the maximum was 85.00 , which were the highest score.

The frequency of pre-test consisted of score, frequency, percent, valid percent, and cumulative percent were presented below:

Table 4.5 Frequency of Pre-Test

| VAR00001 |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | :---: | :---: |
|  | Frequency | Percent | Valid Percent | Cumulative <br> Percent |  |  |
| Valid | 46 | 1 | 3.6 | 3.6 |  |  |

Based on the table 4.5, it concluded that the students' ability before being taught by using secret message game; there were 4 students (14\%) got score's range
between 41-50, it meant that students' vocabulary achievement was poor, 7 students (25\%) got score's range between 51-60, it showed that students' vocabulary achievement was enough, 10 students (36\%) got score's range between 61-70, it meant that students' vocabulary achievement was average, 6 students ( $21 \%$ ) got score's range between 71-80, it showed that students' vocabulary achievement was good, and there were 1 student (4\%) got score's range between 81-90, it meant that student's vocabulary achievement was very good.

## 2. Students' Vocabulary Acievement After being Taught by Using Secret Message Game.

After being taught by the treatment, that is Secret Message Game, the students were given a post-test. The test was followed by 28 students. The time allocation was 40 minutes to do the test. This test was administered on March $15^{\text {th }}$ 2016.The test was different from the pre-test but both of the tests had the same level of difficulties. The researcher gave the test that contains 30 items with 3 parts of test. The first part is cloze test consist of 15 items. Second is matching test consist of 10 items. The last is arranging random letter and write down the meaning consist of 5 items. The total of students who took the post-test was 28 students. The highest score in post-test was 94 and the lowest score was 64 . This test was used to know how significant the treatment
influence students' vocabulary ability. The students' vocabulary achievement in posttest was presented as follows:

Table 4.6 The Students' Score After being Taught by Using Secret Message Game

| No. | Students | Post-Test Score |
| :--- | :--- | :---: |
| 1. | ARA | 95 |
| 2. | AF | 76 |
| 3. | ASJ | 72 |
| 4. | AGS | 60 |
| 5. | AS | 71 |
| 6. | DNBJ | 71 |
| 7. | FCS | 70 |
| 8. | II | 65 |
| 9. | KYN | 69 |
| 10. | LM | 79 |
| 11. | MH | 82 |
| 12. | MAD | 80 |
| 13. | MAAH | 65 |
| 14. | MZS | 79 |
| 15. | MAA | 84 |
| 16. | MIF | 96 |
| 17. | MYT | 81 |
| 18. | NAK | 79 |
| 19. | QM | 75 |
| 20. | RO | 83 |
| 21. | RAS | 78 |
| 22. | SMS | 73 |
| 23. | UA | 71 |
| 24. | UMC | 76 |
| 25. | WIP | 75 |
| 26. | WRHGP | 84 |
| 27. | ZRP | 77 |
| 28. | ZA | 69 |
|  |  |  |

The data of students' pre-test, then were arranged in the form of frequency and percentages through score's criteria, as they were presented below:

Table 4.7 The Percentage of Students' Score in Post-Test

| Grade | Range of Score | Frequency (f) | Percentage (p) |
| :---: | :---: | :---: | :---: |
| A | $91-100$ | 2 | $7 \%$ |
| B | $81-90$ | 5 | $18 \%$ |
| C | $71-80$ | 14 | $50 \%$ |
| D | $61-70$ | 6 | $21 \%$ |
| E | $51-60$ | 1 | $4 \%$ |
| F | $41-50$ | - | - |
| G | $0-40$ | - | - |
|  |  | $\Sigma f=28$ | $\Sigma p=100 \%$ |

Based on the table above, the criteria of students' scores in pre-test were presented as follows:

Table 4.8 The Criteria of Students' Score

| No. | Score's Range | Grade | Criteria |
| :---: | :---: | :---: | :---: |
| 1. | $91-100$ | A | Excellent |
| 2. | $81-90$ | B | Very Good |
| 3. | $71-80$ | C | Good |
| 4. | $61-70$ | D | Fair |
| 5. | $51-60$ | E | Enough |
| 6. | $41-50$ | F | Poor |
| 7. | $0-40$ | G | Very Poor |

From the table 4.7 and 4.8 above, it can be concluded that the average of students' achievement in pre-test were; excellent criteria 7\% in the score's range 91100 , very good criteria $18 \%$ in the score's range $81-90$ with grade $B$, good criteria $50 \%$ in the score's range $71-80$ with grade C, average criteria $21 \%$ in the score's range 61-70 with grade $D$, enough criteria $4 \%$ in the score's range $51-60$ with grade E. It can be seen that the majority of the students got score upper the average.

Meanwhile, the descriptive statistic of pre-test which consisted of mean, median, and mode were presented below:

## Table 4.9 Descriptive Statistic of Post-Test

| Statistics |  |
| :--- | :---: |
| VAR00002  <br> N Valid 28 <br> Missing 0 <br> Mean 76.2500 <br> Median 76.0000 <br> Mode 71.00 <br> Std. Deviation 8.11777 <br> Minimum 60.00 <br> Maximum 96.00 <br> Sum 2135.00 |  |

The table above showed that there were 28 test takers. The mean of the score was 76.25 . The mean 76.25 meant that the average of 28 students got score 76.25 . Meanwhile, the median was 76.00 , the mode was 71.00 .

Also, the table showed minimum score was 60.00 , which were the lowest score. And the maximum was 96.00 , which were the highest score.

The frequency of pre-test consisted of score, frequency, percent, valid percent, and cumulative percent were presented below:

Table 4.10 Frequency of Post-Test

| VAR00002 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 60 | 1 | 3.6 | 3.6 | 3.6 |
|  | 65 | 2 | 7.1 | 7.1 | 10.7 |
|  | 69 | 2 | 7.1 | 7.1 | 17.9 |
|  | 70 | 1 | 3.6 | 3.6 | 21.4 |
|  | 71 | 3 | 10.7 | 10.7 | 32.1 |
|  | 72 | 1 | 3.6 | 3.6 | 35.7 |
|  | 73 | 1 | 3.6 | 3.6 | 39.3 |
|  | 75 | 2 | 7.1 | 7.1 | 46.4 |
|  | 76 | 2 | 7.1 | 7.1 | 53.6 |
|  | 77 | 1 | 3.6 | 3.6 | 57.1 |
|  | 78 | 1 | 3.6 | 3.6 | 60.7 |
|  | 79 | 3 | 10.7 | 10.7 | 71.4 |
|  | 80 | 1 | 3.6 | 3.6 | 75.0 |
|  | 81 | 1 | 3.6 | 3.6 | 78.6 |
|  | 82 | 1 | 3.6 | 3.6 | 82.1 |
|  | 83 | 1 | 3.6 | 3.6 | 85.7 |
|  | 84 | 2 | 7.1 | 7.1 | 92.9 |
|  | 95 | 1 | 3.6 | 3.6 | 96.4 |
|  | 96 | 1 | 3.6 | 3.6 | 100.0 |
|  | Total | 28 | 100.0 | 100.0 |  |

Based on the table 4.10, it can be concluded that the students' ability before being taught by using secret message game is there were 1 student (4\%) got score's range between 51-60, it meant that students' vocabulary achievement was enough, 6 students (21\%) got score's range between 61-70, it showed that students' vocabulary achievement was average, 14 students (50\%) got score's range between 71-80, it meant that students' vocabulary achievement was good, 5 students ( $80 \%$ ) got score's range between $81-90$, it showed that students’ vocabulary achievement was very good, and there were 2 students (7\%) got score's range between 91-100, it meant that student's vocabulary achievement was excellent.

The result of both pre-test and post test of one group experimental were presented as follow:

Table 4.11 The Result of Pre-Test and Post-Test

| No. | Students | Pre-Test Score | Post-Test Score |
| :--- | :--- | :---: | :---: |
| 1. | ARA | 85 | 95 |
| 2. | AF | 49 | 76 |
| 3. | ASJ | 58 | 72 |
| 4. | AGS | 47 | 60 |
| 5. | AS | 63 | 71 |
| 6. | DNBJ | 56 | 71 |
| 7. | FCS | 69 | 70 |
| 8. | II | 50 | 65 |
| 9. | KYN | 63 | 69 |
| 10. | LM | 66 | 79 |
| 11. | MH | 76 | 82 |
| 12. | MAD | 80 | 80 |
| 13. | MAAH | 46 | 65 |
| 14. | MZS | 73 | 79 |
| 15. | MAA | 54 | 84 |
| 16. | MIF | 80 | 96 |
| 17. | MYT | 78 | 81 |
| 18. | NAK | 67 | 79 |
| 19. | QM | 62 | 75 |
| 20. | RO | 63 | 83 |
| 21. | RAS | 70 | 78 |
| 22. | SMS | 60 | 73 |
| 23. | UA | 54 | 71 |
| 24. | UMC | 62 | 76 |
| 25. | WIP | 55 | 75 |
| 26. | WRHGP | 72 | 84 |
| 27. | ZRP | 64 | 77 |
| 28. | ZA | 56 | 69 |
|  |  |  |  |

From the table 4.11 presented above, it can be concluded that secret message game can be used to teach vocabulary for students and can improve students' vocabulary achievement.

## B. Data Analysis

Data Analysis was done to know the difference score of students' vocabulary achievement before and after being taught by using secret message game. Referring to the data in the form of students' score gained from pre-test and post-test as stated above, the researcher analyze the data used statistical test with Paired Sample T-test stated by SPSS 16.0 for windows. The result was as follow:

## Table 4.12 Paired Sample Statistics

| Paired Samples Statistics |  |  |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | :---: | :---: |
|  | Mean | N | Std. Deviation | Std. Error Mean |  |  |
| Pair 1 | VAR00001 | 63.5000 | 28 | 10.56023 |  |  |

The table showed that the data presented are the performances scores of the members of one group which the students were taught before and after using secret message game in improving vocabulary mastery. Output paired sample statistic showed that there were mean scores difference between pre-test and post-test. The mean score of pre-test was 63.50 , and the mean score of post-test was 76.25 . It meant the mean score of post-test was higher that the mean score of pre-test. The number of subjects or test takers (N) was 28 students.

Meanwhile, standard deviation of pre-test was 10.56 and the standard deviation of post-test was 8.11 . Mean standard error of pre-test was 1.996 , while
mean standard error of post-test was 1.534 . Thus, it can be concluded that the students' vocabulary value increased after they were taught by using secret message game.

## Table 4.13 Paired Sample Correlations

Paired Samples Correlations

|  | N | Correlation | Sig. |  |
| :--- | :--- | ---: | ---: | :---: |
| Pair 1 | VAR00001 \& VAR00002 |  | 28 | .760 |

The table 4.13 of paired sample correlation above showed that the large correlation between samples was 0.760 and numeral significance was 0.000 .

Interpretation of decision based on the result of probability achievement they were:
a. Based on the test score $t$ compared with $t_{c}(t$ count $)$ with $t_{t}(t$ table $)$, where $\mathrm{df}=27$, the result of numeral: 2.052 for standard significant $5 \%$ and 2.771 for standard significant $1 \%$. With $t_{\text {count }}=-9.825$, it means that larger from $t_{\text {table }}$ (symbol minus in this matter ignored at standard significant $5 \%$ as well at standard significant $1 \%$, it means the null hypothesis was rejected).
b. Based on the large of digit significant. In this case decision taken from the following consideration:

1) If probability $>0.05$ then null hypothesis was accepted.
2) If probability $<0.05$ then null hypothesis was rejected.

With numeral of significant value 0.000 < than significant level 0.05 , then the null hypothesis stated that there is no significant different between students' score before using Secret Message Game and after using Secret Message Game. At the first grade of MTs Al Huda Bandung Tulungagung was rejected.

Next, the researcher find out the $\mathrm{t}_{\text {count }}$ to compare two kinds of data sample used SPSS 16.0 for windows. The result was as follows:

## Table 4.14 Paired Sample Test

Paired Samples Test

|  | Paired Differences |  |  |  |  | t | df | Sig. (2-tailed) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mean | Std. Deviation | Std. ErrorMean | 95\% Confidence Interval of the Difference |  |  |  |  |
|  |  |  |  | Lower | Upper |  |  |  |
| Pair 1 VAR00001 - VAR00002 | -1.27500E1 | 6.86713 | 1.29776 | -15.41279 | -10.08721 | -9.825 | 27 | . 000 |

The table 4.14 above showed the result of analysis of T-test used SPSS 16.0 for windows. The output paired sample test showed the mean of pre-test and post-test was -1.275 , standard deviation was 6.86 ), standard error mean was 1.298 . Then, the lower difference was -15.413 , while the upper difference was -10.087 . The result of $\mathrm{t}_{\text {count }}$ was -9.825 (symbol minus ignored) with df 27 and significance (2-tailed) was 0.000 .

Based on the statistical calculation using SPSS 16.0, the df was 27 and $\mathrm{t}_{\text {count }}$ was 9.825 and to know whether it is significant or not, the researcher used $\mathrm{t}_{\text {table }}$ to know the significant. The result of $\mathrm{t}_{\text {table }}$ with significant level $5 \%(0.05)$ and df 27 was 2.052. So, it can be concluded that $t_{\text {count }}$ is bigger than $t_{\text {table }}\left(t_{\text {count }}>t_{\text {table }}\right)(9.825>$ 2.052). If $\mathrm{t}_{\text {count }}$ is bigger than $\mathrm{t}_{\text {table }}$, it means $\mathrm{H}_{0}$ is rejected and $\mathrm{H}_{1}$ is accepted. In contrary, if $\mathrm{t}_{\text {count }}$ is smaller than $\mathrm{t}_{\text {table }}$ means that $\mathrm{H}_{0}$ is accepted and $\mathrm{H}_{1}$ is rejected.

From the result above, $\mathrm{t}_{\text {count }}$ is bigger than $\mathrm{t}_{\text {table }}$. So, the alternative hypothesis $\left(\mathrm{H}_{1}\right)$ was accepted and null hypothesis $\left(\mathrm{H}_{0}\right)$ was rejected. It means that there is different score on the students' vocabulary achievement before and after being taught by using Secret Message Game. There was different on Paired Sample Statistic that the mean before being taught by using Secret Message Game was 63.50 , and after being taught by using Secret Message Game was 76.25, it means that the mean before being taught by using Secret Message Game was lower than after being taught by using Secret Message Game. So, it can be concluded that the Secret Message Game is effective to improve the students' vocabulary achievement in first grade of MTs Al Huda Bandung Tulungagung.

## C. Hypothesis Testing

The hypothesis testing of this research was as follows:

1. If the significant value < significant level, the alternative hypothesis $\left(\mathrm{H}_{1}\right)$ was accepted and null hypothesis $\left(\mathrm{H}_{0}\right)$ was rejected. It means that there was different score on the students' vocabulary achievement before and after being taught by using Secret Message Game. The different was significant.
2. If the significant value $>$ significant level, the null hypothesis $\left(\mathrm{H}_{0}\right)$ was accepted and the alternative hypothesis $\left(\mathrm{H}_{1}\right)$ was rejected. It means that there was not different score on the students' vocabulary achievement before and after being taught by using Secret Message Game. The different was not significant.

Based on statistical calculating using SPSS 16.0, the researcher gave interpretation to significant value. The significant value of the research was 0.000 , significant level 0.05 and the $\mathrm{t}_{\text {table }} 2.052$ the df: 27 whereas the $\mathrm{t}_{\text {count }} 9.825$. When the significant value $(0.000)$ < significant level $(0.05)$ the alternative hypothesis $\left(\mathrm{H}_{1}\right)$ was accepted and the null hypothesis $\left(\mathrm{H}_{0}\right)$ was rejected. While significant value $(0.000)$ > significant level (0.05) the null hypothesis $\left(\mathrm{H}_{0}\right)$ was accepted. Because significant value (0.000) was smaller than significant level (0.05), it can be concluded that alternative hypothesis $\left(\mathrm{H}_{1}\right)$ was accepted and null hypothesis $\left(\mathrm{H}_{0}\right)$ was rejected. It means that there is different score on the students' vocabulary achievement before and after being taught by using Secret Message Game. There was different on Paired Sample Statistic that the mean before being taught by using Secret Message Game
was 63.50 , and after being taught by using Secret Message Game was 76.25, it means that the mean before being taught by using Secret Message Game was lower than after being taught by using Secret Message Game. So, it can be concluded that the Secret Message Game is effective to improve the students' vocabulary achievement in first grade of MTs Al Huda Bandung Tulungagung.

## D. Discussion

The objective of this research was to know the effectiveness of Secret Message Game toward students' vocabulary achievement of first grade of MTs Al Huda Bandung Tulungagung in the academic year 2015/2016.

In order to reach the objective of the research, the researcher conducted an experimental research with a pre-test and post-test design. The research procedures done during teaching and learning process were divided into three steps. The first step was administering pre-test to students. The test was used to know the students' basic competence in vocabulary before being taught by using Secret Message Game. The pre-test was administered to the students at the first meeting on March $4^{\text {th }}$ 2016. The researcher gave the test that contains 30 items with 3 parts of test. The first part is cloze test consist of 15 items. Second is matching test consist of 10 items. The last is arranging random letter and write down the meaning consist of 5 items. The total of students who took the pre-test was 28 students.

The second step was giving the treatment to students. The treatment in this research was asking students to solve the problem (secret message) given by teacher in group, in this case the problem was some questions. The researcher divided students into five groups; each group consisted of 5-6 students. During the treatment, the students were enthusiastic to study vocabulary. All students were active to work in group to solve the problems. The researcher was done the treatment four times on March $4^{\text {th }}, 8^{\text {th }}, 11^{\text {th }}, 15^{\text {th }} 2016$.

And the last step was administered post-test to students. This test was used to know how significant the treatment influence students' vocabulary ability. In the post-test, the students are given a test to know their vocabulary ability after they treated by using Secret Message Game. The post-test is administered to the students at the last meeting on March $15^{\text {th }}$ 2016. The researcher gave the test that contains 30 items with 3 parts of test. The first part is cloze test consist of 15 items. Second is matching test consist of 10 items. The last is arranging random letter and write down the meaning consist of 5 items. The total of students who took the pre-test was 28 students.

After the pre-test and post-test was administered, the researcher got the data in the form of scores. In the pre-test, the mean was 63.50 from 28 students, while the mean of post-test was 76.25 from 28 students. The score showed that the result of post-test was higher that pre-test. From result above, it can be concluded that the students got better achievement in mastering vocabulary after being taught by using

Secret Message Game. The students' vocabulary achievement was improved after they were taught by using Secret Message Game.

Thus, teaching vocabulary by using Secret Message Game made students know some new vocabularies and understand more easily. Accordingly, Secret Message Game can be used as the alternative way to teach vocabulary to students. The teaching learning process using games may make students have fun and enjoy in understanding material. Moreover, this activity invites students to be more active in class.

The data was analyzed by using T-test and SPSS 16.0 for windows. The result of $t_{\text {count }}$ was 9.825 and $d f$ was 27 . Then, the researcher used $t_{\text {table }}$ with significant level $5 \%$ (0.05) and $\mathrm{df}=27$. The result of $\mathrm{t}_{\text {table }}$ was 2.052. So from the result, it is known that $t_{\text {count }}$ bigger than $t_{\text {table }}(9.825>2.052) . T_{\text {count }}$ is bigger than $t_{\text {table }}$ means that the Null Hypothesis $\left(\mathrm{H}_{0}\right)$ is rejected and Alternative Hypothesis $\left(\mathrm{H}_{1}\right)$ is accepted. Thus, the finding indicated that the use of Secret Message Game gave significant effect on students' vocabulary achievement. There is significant difference between students' vocabulary achievement before and after being taught by using secret message game. The Secret Message Game can improve students' vocabulary mastery.

As we know before that vocabulary was important to students to communicate with friends and teacher and students need to improve their vocabulary mastery to pass the English lesson at school. According to Linse (2005) "vocabulary is the
collection of words that an individual knows." Pollard (2008) states that "vocabulary is a basic building block of language learning. Students need to know words, their meanings, how they are spelt and how they are pronounced." In addition, Hiebert and Kamil (2005) state that, "generically, vocabulary is the knowledge of meaning of words." Hence, vocabulary is the things that is included in language and used by people to communicate each others in their daily activity.

Game is a fun activity that can make the gamer or people who playing game feel enjoy and happy. According to Hadfield (1996), a game is an activity with rules, a goal and an element of fun. There are two kinds of games: competitive games, in which players or teams race to be the first to reach the goal, and co-operative games, in which players or teams work together towards a common goal. The emphasis in the game is on successful communication rather than on correctness of language. This finding also supported by Thiagarajan (in Wahyuni and Herawati 2012) state that message secret game is a game which ensures that players understand the principles presented in a handout. This game taps into the players' visual intelligence. And according to Wahyuni and Herawati (2012) "message secret is one of the games to teach vocabulary." The student study vocabulary in group with a card from teacher which have some clues or questions. This game is appropriate for student to learn vocabulary because by playing this game students get new vocabulary and enrich their knowledge.

According to Kim (1995) there are many advantages of using games in the classroom, they are: the first, games are a welcome break from the usual routine of the language class. The second, they are motivating and challenging. The third, learning a language requires a great deal of effort. Next, games help students to make and sustain the effort of learning. Then, games provide language practice in the various skills- speaking, writing, listening and reading. The next, they encourage students to interact and communicate. The last, they create a meaningful context for language use. So, the advantages if teacher using game to teach in class are: the games can motivate students to be more active in class because game is challenging activity. By using the games also, it can be minimize the students' burden and boring in learning English. When teacher uses games to teach, the teacher can gather information about all students' skills, they are listening, speaking, reading and writing. And students can communicate with their classmates during the games.

From the explanation above, the implementation of Secret Message Game in teaching and learning process gave a positive effect on the students' achievement, because they can study vocabulary easily and relax without any burden. It can be done because by fun learning, information can be understood and maintained well. Teaching and learning process by using games serve fun situation for learners. Hence, the learners can improve their understanding and their vocabulary trough the implementation of games.

