#### **CHAPTER IV**

#### FINDINGS AND DISCUSSION

In this chapter, the researcher presents findings which have been collected during the research, hypothesis testing and discussions of the research findings.

#### A. The Description of Data

The aim of the research was to obtain whether there was a significant effect of students' vocabulary mastery taught by using Stop Motion Animation as media at first grade of MTsN 5 Tulungagung in academic year 2018/2019. The data of this research were taken from the test score.

The data were the students' score of test improvement from pre-test to post-test of both contol and experimental classes. Before giving post-test, the researcher gave pre-test to all of the samples in both classes. The effectiveness can be seen from the significant different score of students' vocabulary mastery taught and without taught by using Stop Motion Animation as media.

| the researcher gave category as follows: (See table 4.1) |     |                |          |  |
|--|-----|----------------|----------|--|
|  | No. | Range of Score | Criteria |  |

To know the students's vocabulary mastery whether it was good or not,

| No. | Range of Score | Criteria  |
|-----|----------------|-----------|
| 1.  | 90-100         | Very Good |
| 2.  | 70-89          | Good      |
| 3.  | 50-69          | Fair      |
| 4.  | 30-49          | Poor      |
| 5.  | 0-29           | Very Poor |

# 1. The Data of Experimental Class

After conducting pre-test and post-test of control class, the researcher obtained the data. The data are as follows:

### Table 4.2 Students score before and after being taught using

| 1.       AIA       76       10         2.       AFA       64       80         3.       AFR       64       80         4.       AAA       72       76         5.       AZF       76       84         6.       ADF       84       10         7.       ADR       60       96         8.       ADA       96       10         9.       AF       68       88         10.       AA       80       80 | 'EST |
|--|------|
| 11       111       10       10         2.       AFA       64       80         3.       AFR       64       80         4.       AAA       72       76         5.       AZF       76       84         6.       ADF       84       10         7.       ADR       60       96         8.       ADA       96       10         9.       AF       68       88         10.       AA       80       80 | )    |
| 3.       AFR       64       80         4.       AAA       72       76         5.       AZF       76       84         6.       ADF       84       10         7.       ADR       60       96         8.       ADA       96       10         9.       AF       68       88         10.       AA       80       80   |      |
| 4.       AAA       72       76         5.       AZF       76       84         6.       ADF       84       10         7.       ADR       60       96         8.       ADA       96       10         9.       AF       68       88         10.       AA       80       80  |      |
| 5.       AZF       76       84         6.       ADF       84       10         7.       ADR       60       96         8.       ADA       96       10         9.       AF       68       88         10.       AA       80       80   |      |
| 6.       ADF       84       10         7.       ADR       60       96         8.       ADA       96       10         9.       AF       68       88         10.       AA       80       80  |      |
| 7.     ADR     60     96       8.     ADA     96     10       9.     AF     68     88       10.     AA     80     80   | )    |
| 8.         ADA         96         10           9.         AF         68         88           10.         AA         80         80  |      |
| 9.         AF         68         88           10.         AA         80         80           11.         DAM         20         24   | )    |
| 10. AA 80 80   |      |
|  |      |
| 11. DAM 80 84  |      |
| 12. DUM 56 72  |      |
| 13. DP 48 88   |      |
| 14. EPW 80 92  |      |
| 15. EP 56 76   |      |
| 16. FZ 72 92   |      |
| 17. FTR 48 72  |      |
| 18. HMS 52 68  |      |
| 19. KRA 80 88  |      |
| 20. LKL 80 88  |      |
| 21. MKA 80 88  |      |
| 22. MDBS 76 76   | )    |
| 23. MS 80 72   |      |
| 24. MBF 76 72  | ,    |
| 25. MSQ 84 88  |      |
| 26. NAN 64 92  |      |
| 27. NIM 60 76  |      |
| 28. RAB 64 66  |      |
| 29. RAY 64 88  |      |

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| 30. | RIP | 68 | 88 |
|-----|-----|----|----|
| 31. | SPR | 60 | 92 |
| 32. | YW  | 68 | 84 |
| 33. | ZMP | 76 | 92 |
| 34. | AWW | 72 | 84 |
| 35. | APR | 96 | 96 |
| 36. | AEA | 76 | 92 |
| 37. | AFW | 88 | 84 |
| 38. | СВ  | 80 | 96 |
| 39. | DSN | 60 | 84 |
| 40. | DEP | 72 | 80 |
| 41. | DRN | 80 | 84 |

Based on the table 4.2, there were 41 students as sample of the research. The descriptive statistic of experimental class is as follow:

a. Pre-Test of Experimental Class

The researcher used SPSS 18.0 version to know the descriptive statistic and the frequency of students' pre-test in experimental class. The frequency divided into five criterions: very good, good, fair, poor and very poor (see table 4.1). the result of the calculation is as follows:

| Pretest       |         |         |
|---------------|---------|---------|
| N             | Valid   | 41      |
|               | Missing | 0       |
| Mean          |         | 71.61   |
| Std. Error of | Mean    | 1.809   |
| Median        |         | 72.00   |
| Mode          |         | 80      |
| Std. Deviatio | n       | 11.586  |
| Variance      |         | 134.244 |
| Range         |         | 48      |
| Minimum       |         | 48      |
| Maximum       |         | 96      |
| Sum           |         | 2936    |
| Percentiles   | 25      | 64.00   |
|               | 50      | 72.00   |
|               | 75      | 80.00   |

### Table 4.3 Descriptive Statistic of Pre-Test

Statistics

Based on the table 4.3 above, it showed that the mean of pre-test was 71.61, the median was 72.00, the mode was 80, the standart deviation was 11.586, the range was 48, the minimum score of pre-test was 48, the maximum score was 96. Then, the summary of pre-test was 2936.

|       |       |           | Fletest |               |            |
|-------|-------|-----------|---------|---------------|------------|
|       |       |           |         |               | Cumulative |
|       |       | Frequency | Percent | Valid Percent | Percent    |
| Valid | 48    | 2         | 4.9     | 4.9           | 4.9        |
|       | 52    | 1         | 2.4     | 2.4           | 7.3        |
|       | 56    | 2         | 4.9     | 4.9           | 12.2       |
|       | 60    | 4         | 9.8     | 9.8           | 22.0       |
|       | 64    | 5         | 12.2    | 12.2          | 34.1       |
|       | 68    | 3         | 7.3     | 7.3           | 41.5       |
|       | 72    | 4         | 9.8     | 9.8           | 51.2       |
|       | 76    | 6         | 14.6    | 14.6          | 65.9       |
|       | 80    | 9         | 22.0    | 22.0          | 87.8       |
|       | 84    | 2         | 4.9     | 4.9           | 92.7       |
|       | 88    | 1         | 2.4     | 2.4           | 95.1       |
|       | 96    | 2         | 4.9     | 4.9           | 100.0      |
|       | Total | 41        | 100.0   | 100.0         |            |

# Table 4.4 The Frequency of Students' Score Before Taught by using

Stop Motion Animation

Ductoot

From the table 4.4, the frequency of pre-test score of experimental class after being distributed there are 2 students getting score between 30-49, which means that students' vocabulary mastery was poor, 15 students getting score between 50-69 which means that students's vocabulary mastery was fair. Then, 22 students getting score between 70-89 which means that students' vocabulary mastery was good, 2 students getting score between 90-100, means that students' vocabulary mastery was very good.

There were 2 students got score 48 (4.9%), 1 student got score 52 (2.4%), 2 students got score 56 (4.9%), 4 students got score 60 (9.8%), 5

students got score 64 (12.2%), 3 students got score 68 (7.3%), 4 students got score 72 (9.8%), 6 students score 76 (14.6%), 9 students got score 80 (22.0%), 2 students got score 84 (4.9%), 1 students got score 88 (2.4%), and 2 students got score 96 (4.9%). The highest frequency was in score 80 (9 students).

b. Post-test of Experimental class

The researcher used SPSS 18.0 version to know the descriptive statistic and the frequency of students' post-test in experimental class. The frequency divided into five creiterions: very good, good, fair, poor and very poor (see table 4.1). The result of the calculation is as follows:

| Posttest      |         |        |
|---------------|---------|--------|
| N             | Valid   | 41     |
|               | Missing | 0      |
| Mean          |         | 84.83  |
| Std. Error of | Mean    | 1.388  |
| Median        |         | 84.00  |
| Mode          |         | 88     |
| Std. Deviatio | n       | 8.888  |
| Variance      |         | 78.995 |
| Range         |         | 34     |
| Minimum       |         | 66     |
| Maximum       |         | 100    |
| Sum           |         | 3478   |
| Percentiles   | 25      | 78.00  |
|               | 50      | 84.00  |
|               | 75      | 92.00  |

Statistics

Based on the table 4.5 above, it showed that the mean of post-test was 84.83, the median was 84.00, the mode was 88, the standart deviation was 8.888, the range was 34, the minimum score of pre-test was 66, the maximum score was 100. Then, the summary of pre-test was 3478.

# Table 4.6 The Frequency of Students' Score After Taught by Using

| Posttest |       |           |         |               |            |
|----------|-------|-----------|---------|---------------|------------|
|          |       |           |         |               | Cumulative |
|          | _     | Frequency | Percent | Valid Percent | Percent    |
| Valid    | 66    | 1         | 2.4     | 2.4           | 2.4        |
|          | 68    | 1         | 2.4     | 2.4           | 4.9        |
|          | 72    | 4         | 9.8     | 9.8           | 14.6       |
|          | 76    | 4         | 9.8     | 9.8           | 24.4       |
|          | 80    | 4         | 9.8     | 9.8           | 34.1       |
|          | 84    | 7         | 17.1    | 17.1          | 51.2       |
|          | 88    | 8         | 19.5    | 19.5          | 70.7       |
|          | 92    | 6         | 14.6    | 14.6          | 85.4       |
|          | 96    | 3         | 7.3     | 7.3           | 92.7       |
|          | 100   | 3         | 7.3     | 7.3           | 100.0      |
|          | Total | 41        | 100.0   | 100.0         |            |

**Stop Motion Animation** 

From the table 4.6, the frequency of post-test score of experimental class after being distributed there are 2 students got score between 50-69, which means that the students' vocabulary mastery was fair, 27 students got score between 70-89 which means that students' vocabulary mastery was good, and 6 students got score between 90-100, means that students' vocabulary mastery was very good.

There were 1 student got score 66 (2.4%), 1 student got score 68 (2.4%), 4 students got score 72 (9.8%), 4 students got score 76 (9.8%), 4 studebts got score 80 (9.8%), 7 students got score 84 (17.1%), 8 students got score 88 (19.5%), 6 students got score 92 (14.6%), 3 students got score 96 (7.3%), and 3 students got score 100 (7.3%). The highest frequency was in score 88 (8 students).

2. The Data of Control Class

After conducting pre-test and post-test for control class, the researcher obtained the data. The data are as follows:

## Table 4.7 Students' Score before and after being taught without using

| NO. | INITIAL NAMA | PRE-TEST | POST-TEST |
|-----|--------------|----------|-----------|
| 1.  | АКН          | 72       | 76        |
| 2.  | AHS          | 64       | 72        |
| 3.  | AAM          | 52       | 64        |
| 4.  | AFAF         | 64       | 72        |
| 5.  | AA           | 56       | 72        |
| 6.  | ADR          | 80       | 92        |
| 7.  | ATS          | 76       | 96        |
| 8.  | AAM          | 64       | 88        |
| 9.  | AS           | 80       | 84        |
| 10. | DLSB         | 36       | 36        |
| 11. | DMA          | 60       | 84        |
| 12. | DRP          | 56       | 68        |
| 13. | EPM          | 68       | 72        |
| 14. | FZ           | 60       | 68        |
| 15. | GCD          | 56       | 68        |
| 16. | HAN          | 64       | 76        |
| 17. | IW           | 72       | 76        |
| 18. | MAH          | 60       | 60        |
| 19. | MFN          | 76       | 84        |

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| 20. | MCM  | 60 | 60 |
|-----|------|----|----|
| 21. | NYA  | 64 | 68 |
| 22. | NMW  | 64 | 68 |
| 23. | RAAM | 80 | 80 |
| 24. | RF   | 72 | 84 |
| 25. | SR   | 60 | 76 |
| 26. | SNK  | 76 | 76 |
| 27. | SVDM | 68 | 80 |
| 28. | ТА   | 56 | 60 |
| 29. | YDA  | 68 | 72 |
| 30. | YSK  | 80 | 80 |
| 31. | ZTZR | 60 | 72 |
| 32. | ASN  | 76 | 80 |
| 33. | DID  | 60 | 76 |
| 34. | DGF  | 80 | 80 |
| 35. | ESP  | 68 | 72 |
| 36. | EAF  | 68 | 80 |
| 37. | FR   | 60 | 64 |
| 38. | GYR  | 72 | 76 |
| 39. | IA   | 56 | 64 |
| 40. | MR   | 72 | 72 |
| 41. | MAA  | 60 | 68 |

Based on the table 4.7, there 41 students as samples of the research. The descriptive statistic of control class is below:

### a. Pre-Test of Control Class

The researcher used SPSS 18.0 version to know the descriptive statistic and the frequency of students' pre-test in control class. The frequency divided into into five creiterions: very good, good, fair, poor and very poor (see table 4.1). The result of the calculation is as follows:

| Pretest       |         |        |
|---------------|---------|--------|
| N             | Valid   | 41     |
|               | Missing | 0      |
| Mean          |         | 65.76  |
| Std. Error of | Mean    | 1.465  |
| Median        |         | 64.00  |
| Mode          |         | 60     |
| Std. Deviatio | n       | 9.383  |
| Variance      |         | 88.039 |
| Range         |         | 44     |
| Minimum       |         | 36     |
| Maximum       |         | 80     |
| Sum           |         | 2696   |
| Percentiles   | 25      | 60.00  |
|               | 50      | 64.00  |
|               | 75      | 72.00  |

# **Table 4.8 Descriptive Statistic of Pre-Test**

Statistics

Based on the table 4.8 above, it showed that the mean of pre-test was 65.76, the median was 64.00, the mode was 60, the standart deviation was 9.383, the range was 44, the minimum score of pre-test was 36, the maximum score was 80. Then, the summary of pre-test was 2696.

|       |       |           | 1101031 |               |                       |
|-------|-------|-----------|---------|---------------|-----------------------|
|       |       | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
| Valid | 20    | 4         | 0.4     | 2.4           | 2.4                   |
| valid | 36    | 1         | 2.4     | 2.4           | 2.4                   |
|       | 52    | 1         | 2.4     | 2.4           | 4.9                   |
|       | 56    | 5         | 12.2    | 12.2          | 17.1                  |
|       | 60    | 9         | 22.0    | 22.0          | 39.0                  |
|       | 64    | 6         | 14.6    | 14.6          | 53.7                  |
|       | 68    | 5         | 12.2    | 12.2          | 65.9                  |
|       | 72    | 5         | 12.2    | 12.2          | 78.0                  |
|       | 76    | 4         | 9.8     | 9.8           | 87.8                  |
|       | 80    | 5         | 12.2    | 12.2          | 100.0                 |
|       | Total | 41        | 100.0   | 100.0         |                       |

**Table 4.9 The Frequency of Students' Pre-Test in Control Class** 

Ductoot

From the table 4.9 above, the frequency of pre-test score of control class after being distributed there are 1 student got score between 30-49, means that the students' vocabulary was poor, 25 students got score between 50-69, means that the students' vocabulary mastery was fair, and 14 students got score between 70-89, means that the students' vocabulary mastery was good.

There were 1 student got score 36 (2.4%), 1 student got score 52 (2.4%), 5 students got score 56 (12.2%), 9 students got score 60 (22.0%), 6 students got score 64 (14.6%), 5 students got score 68 (12.2%), 5 students got score 72 (12.2%), 4 students got score 76 (9.8%) and 5 students got score 80 (12.2%). The highest frequency was in score 60 (9 students).

### b. Post-Test of Control Class

The researcher used SPSS 18.0 version to know the descriptive statistis and the frequency of students' post-test in control class. The frequency divided into into five creiterions: very good, good, fair, poor and very poor (see table 4.1). The result of the calculation is as follows:

**Table 4.10 Descriptive Statistic of Post-Test** 

| Statistics    |                |       |  |  |  |  |
|---------------|----------------|-------|--|--|--|--|
| Posttest      |                |       |  |  |  |  |
| N             | Valid          | 41    |  |  |  |  |
|               | Missing        | 0     |  |  |  |  |
| Mean          |                | 73.56 |  |  |  |  |
| Std. Error of | Mean           | 1.604 |  |  |  |  |
| Median        |                | 72.00 |  |  |  |  |
| Mode          |                | 72    |  |  |  |  |
| Std. Deviatio | Std. Deviation |       |  |  |  |  |
| Variance      | Variance       |       |  |  |  |  |
| Range         |                | 60    |  |  |  |  |
| Minimum       |                | 36    |  |  |  |  |
| Maximum       |                | 96    |  |  |  |  |
| Sum           |                | 3016  |  |  |  |  |
| Percentiles   | 25             | 68.00 |  |  |  |  |
|               | 50             | 72.00 |  |  |  |  |
|               | 75             | 80.00 |  |  |  |  |

Based on the table above, it showed that the mean of post-test was 73.56, the median was 72.00, the mode was 72, the standart deviation was 10.271, the range was 60, the minimum score of pre-test was 36, the maximum score was 96. Then, the summary of pre-test was 3016.

| Posttest |       |           |         |               |            |  |  |  |  |
|----------|-------|-----------|---------|---------------|------------|--|--|--|--|
|          |       |           |         |               | Cumulative |  |  |  |  |
|          | -     | Frequency | Percent | Valid Percent | Percent    |  |  |  |  |
| Valid    | 36    | 1         | 2.4     | 2.4           | 2.4        |  |  |  |  |
|          | 60    | 3         | 7.3     | 7.3           | 9.8        |  |  |  |  |
|          | 64    | 3         | 7.3     | 7.3           | 17.1       |  |  |  |  |
|          | 68    | 6         | 14.6    | 14.6          | 31.7       |  |  |  |  |
|          | 72    | 8         | 19.5    | 19.5          | 51.2       |  |  |  |  |
|          | 76    | 7         | 17.1    | 17.1          | 68.3       |  |  |  |  |
|          | 80    | 6         | 14.6    | 14.6          | 82.9       |  |  |  |  |
|          | 84    | 4         | 9.8     | 9.8           | 92.7       |  |  |  |  |
|          | 88    | 1         | 2.4     | 2.4           | 95.1       |  |  |  |  |
|          | 92    | 1         | 2.4     | 2.4           | 97.6       |  |  |  |  |
|          | 96    | 1         | 2.4     | 2.4           | 100.0      |  |  |  |  |
|          | Total | 41        | 100.0   | 100.0         |            |  |  |  |  |

Table 4.11 The Frequency Of Students' Post-Test in Control Class

From the table 4.11 above, the frequency of post-test score of control class after being distributed there are 1 student got score between 30-49, means that the student' vocabulary mastery was poor, 12 students got score between 50-69, mrans that the students' vocabulary was fair, 26 students got score between 70-89, means that the students' vocabulary was good and 2 students got score between 90-100, means that the students vocabulary mastery was vocabulary mastery was vocabulary between 20-49, means that the students' vocabulary was good and 2 students got score between 90-100, means that the students vocabulary mastery was very good.

There were 1 student got score 36 (2.4%), 3 students got score 60 (7.3%), 3 students got score 64 (7.3%), 6 students got score 68 (14.6%), 8 students got score 72 (19.5%), 7 students got score 76 (17.1%), 6 students got score 80 (14.6%), 4 students got score 84 (9.8%), 1 student got score 88 (2.4%), 1 student got score 92 (2.4%) and 1 student got score 96 (2.4%). The highest frequency was in score 72 (8 students).

#### **B.** Hypothesis Testing

There were two hypotheses here that was f and t hypothesis. Before discussing the t-test, the researcher needed to test the f-test. F-test was used to know the equality of variance of the two classes. While, the t-test was used to test the two means (experimental and control class). Althought the f-test was automatically serve in the SPSS table of t-test, the researcher write down f hypothesis as the requirement in quasi-experimental research design (experimental and control class). The hypothesis of this research are as follow:

- 1. Hypothesis testing of F-test
  - a.  $H_0$ :  $\sigma_1^2 = \sigma_2^2$ , means that there is an equal variance between experimental and control class.
  - b.  $H_a$  :  $\sigma_1{}^2 \neq \sigma_2{}^2$ , means that there is no equal variance between experiment and control class.
  - If *p*-value (Sig) bigger than 0.05, the null hypothesis (H<sub>0</sub>) is not rejected.
     As such, *equal variances assumed* is used.
  - 2) If *p-value* (Sig) less than 0.05, the null hypothesis (H<sub>0</sub>) is rejected.As such, *equal variances not assumed* is used.
- 2. Hypothesis testing of F-test
  - a. Null hypothesis (Ho): There is no significant difference score on students' vocabulary mastery taught by using Stop Motion Animation and those taught by using Conventional Method.

- b. Alternative hypothesis (Ha): There is significant difference score on students' vocabulary mastery taught by using Stop Motion Animation and those taught by using Conventional Method.
- If sig (2-tailed) is smaller than 0.05, the alternative hypothesis (H<sub>a</sub>) is not rejected and the null hypothesis (H<sub>0</sub>) is rejected.
- 2) If sig (2-tailed) is bigger than 0.05, the alternative hypothesis  $(H_a)$  is rejected and the null hypothesis  $(H_0)$  is not rejected.

To know whether there is any significant difference score on students' vocabulary mastery taught by using Stop Motion Animation and those taught by using Conventional Method, the researcher analyzed the data by using SPSS 18.0 version. The result can be seen on table below:

**Table 4.12 The Output of Group Statistics** 

| Group Statistics |            |    |       |                |                 |  |  |  |
|------------------|------------|----|-------|----------------|-----------------|--|--|--|
|                  | CLASS      | N  | Mean  | Std. Deviation | Std. Error Mean |  |  |  |
| Score            | Experiment | 41 | 84.83 | 8.888          | 1.388           |  |  |  |
|                  | Control    | 41 | 73.56 | 10.271         | 1.604           |  |  |  |

Based on the table 4.12, it showed there were two classes, it was experimental class and control class. First, experimental class, showed N cell there was 41, Mean score of post-test in experimental class score was 84.83, Standart Deviation for experimental class was 8.888, and standart error mean was 1.388. While, in control class, showed N cell there was 41, mean score of post-test in control class score was 73.56, standart deviation was 10.271, and standart error mean was 1.604. from the result above, it can be concluded that there was significant difference score on students' vocabulary mastery taught by using Stop Motion Animation and those taught by using Conventional Method.

|       |                      | Levene's<br>Test for<br>Equality of<br>Variances |      |       | t-test for Equality of Means |         |            |            |                   |        |
|-------|----------------------|--|------|-------|------------------------------|---------|------------|------------|-------------------|--------|
|       |                      |  |      |       |                              |         |            |            | 95%<br>Confidence |        |
|       |                      |  |      |       |                              | Sig.    |            |            | Interval of the   |        |
|       |                      |  |      |       |                              | (2-     | Mean       | Std. Error | Difference        |        |
|       |                      | F  | Sig. | Т     | df                           | tailed) | Difference | Difference | Lower             | Upper  |
| NILAI | Equal                | .038   | .847 | 5.312 | 80                           | .000    | 11.268     | 2.121      | 7.047             | 15.490 |
|       | variances<br>assumed |  |      |       |                              |         |            |            |                   |        |
|       | Equal                |  |      | 5.312 | 78.382                       | .000    | 11.268     | 2.121      | 7.045             | 15.491 |
|       | variances            |  |      |       |                              |         |            |            |                   |        |
|       | not                  |  |      |       |                              |         |            |            |                   |        |
|       | assumed              |  |      |       |                              |         |            |            |                   |        |

**Table 4.13 The Output of Independent Sample T-Test** 

**Independent Samples Test** 

Based on the table 4.13 above, it showed that *P-value* (Sig) was 0.847 and it was bigger than 0.050 and  $H_0$  was accepted. It can conclude that both variance experimental and control class are the same. The result is the writer used Equal Variance Assumed in making decision of T-test.

Based on the table 4.14, the significant value of the t (2-tailed) was 0.000. Because it was lower than the significant 0.05, it was concluded that

there was a significant in the student's achievement between the experimental and control class in mastering vocabulary. It mean that the alternative hypothesis ( $H_a$ ) was accepted and the null hypothesis ( $H_0$ ) was rejected. In other words, it could be conclude that there was significant difference score on students' vocabulary mastery taught by using Stop Motion Animation and those taught by using Conventional Method.

#### **C. Discussion**

Regarding to the research finding above, the data were analyzed by using SPSS 18.0 version. The calculation of the achievement using t-test showed that there was significant difference score on students' vocabulary achievement taught by using Stop Motion Animation and those taught by using Conventional Method. The mean of control class in pre-test was 65.76 and in post test improved to be 73.56. Then, the mean of experimental class of pre-test was 71.61 and in the post-test improved to be 84.83.

It can be interpreted that the vocabulary mastery of the students had been improved after getting treatment. On the output of t-test showed that the significant of the t (2-tailed) was 0.000. Because it was lower than the significant 0.05, it was concluded that there was as significant different on students' achievement between the experimental and control class in mastering vocabulary. Means that the alternative hypothesis (Ha) was accepted and the null hypothesis (H<sub>0</sub>) was rejected. In other words, it can be conluded that there was significant difference score on students' vocabulary mastery taught by using Stop Motion Animation and those taught by using Conventional Method. From the result of the data nalysis above, Stop Motion Animation can be used to teach vocabulary mastery of students. According to Herr et al as citied in Tobalina (2016: 70) stated that Stop Motion Animation is a technique which makes objects seem to move by themselves. In this case, Stop Motion Animation was learning media which is can increase students' concentration. The researcher used Stop Motion Animation to teach vocabulary at the first grade students of MTsN 5 Tulungagung.

The result of this research was also similiar with the previous studies. The first study was conducted by Tobalina (2016) entitled "The Impact of Stop Motion on EFL Learner's Retention and Recall of English Idiomatic Expression". This study uses experimental study with two different class group. The subject of the study is 3<sup>rd</sup> year ESO Spanish students of English as Foreign Language. The result is that, Stop Motion Animation is efficient to improve students' retention and recall of the English idioms. Compared with the previous study, this research used Stop Motion Animation to teach vocabulary mastery, while the previous one used Stop Motion Animation to teach English Idioms.

The second study was conducted by Imama and Mumfangati (2015) with the title "Designing Stop Motion Video Using Learning Style Approach to Teach Vocabulary 4th Grade SD Muhammadiyah Purwodiningratan 2 in the Academic Year 2015/2016". This study can be classified as Research and Development. The subject of the study is 4<sup>th</sup> grade of Muhammadiyah Purwodiningratan II elementary school in the academic years 2015/2016. The way research to get the data by conducting an observation, interview, questionnaire and the test to the subject data. The result of the study is that, the post test result of experiment class was giving improvement rather than on the control class. Compared with the previous study, this study used Quasi Experimental study design, while the previous one used Research and Development study. The result of the study was the same, that is Stop Motion Animation was effective in teaching vocabulary mastery.

The other finding was students' motivation in learning activity. During the learning process the students were interested. It can be seen from the students enjoy in watching the Stop Motion Animation. This finding was the same with the theory of Waugh and Jolliffe state as citied in Tobalina (2016: 71) explain that "Stop Motion is an enjoyable activity", so it is likely to make teaching and learning process more entertaining, thus enhancing students' interest in the target vocabulary.

Based on the explanation above, Stop Motion Animation may able to make students to be active and improved their participation in the class, because this media helped and encouraged learner to sustain their interest and this media helped teacher to make enjoyable teaching activity. It mean that Stop Motion Animation could support them to be more concentrate with enjoyable media. It can be conclude that the use of Stop Motion Animation was effective on students' vocabulary mastery of the seventh grade students at MTsN 5 Tulungagung in academic year of 2018/2019.