**CHAPTER IV**

**RESEARCH FINDINGS AND DISCUSSION**

In this chapter the writer describes about the discussion on the treatment, the result of the quantitative data, the computation of *t* – Value for two sample means and the interpretation of the quantitative data.

1. **The Discussion on the Treatment**.

The treatment between the experimental group and control group was different in term of method in teaching English. The experimental group was taught by using motion pictures, while the control was taught without using motion pictures.

During conducting this research, the researcher wanted to know the students` achievement in teaching learning process. The result pre- test, the researcher found that the students` achievement of the fourth year students at SDN 2 Sawahan - Trenggalek were different. Therefore, in this study the researcher use the motion pictures to improve the students` achievement in vocabulary. In the process of treating the teacher was free to improve their teaching method as long as use the motion pictures, in the fact the researcher had made four lessons.

1. **The Treatment for the Control Group**.

The researcher used the control group to make sure that the teacher was taught without using motion pictures in teaching learning process.

The control group is needed to know the students` achievement in vocabulary. Here, control group was IV-B, those before being taught by using motion pictures.

**2. The Treatment for the Experimental Group.**

The researcher used the experimental group to make sure that the teacher was taught by using motion pictures in teaching learning process.

The experimental group is needed to know the students` achievement in vocabulary. Here, experimental group was IV-A, those after being taught by using motion pictures.

1. **The Result of The Quantitative Data**

In the first time, the researcher gave the pre test to the students. In the pre test, the students were asked to do the test about animals and fruits. The pre test divided into two groups, they are control group was IV-B, those before taught by using motion pictures and experimental group was IV-A those after being taught by using motion pictures. And the last, after two groups have been exposed to the treatment, some period time, the researcher administered a test of dependent variable (post test) and determined whether there were any significant different between two groups. As it has been mentioned previously, the researcher wanted to know whether it is different result between experimental group after being taught by using motion pictures and the control group before being taught by using motion pictures.

1. For the Control Group ( B Class )

The result of pre test and post test for control group and the data are:

 **Table 4.1 Result of the test for control group**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Pre test (x) | Post test (y) | d | d2 |
| 1 | 50  | 60 | 10 | 100 |
| 2 | 55 | 65 | 10 | 100 |
| 3 | 45 | 50 | 5 | 25 |
| 4 | 45 | 55 | 10 | 100 |
| 5 | 60 | 60 | 0 | 0 |
| 6 | 60 | 70 | 10 | 100 |
| 7 | 50 | 60 | 10 | 100 |
| 8 | 55 | 65 | 10 | 100 |
| 9 | 45 | 50 | 5 | 25 |
| 10 | 55 | 60 | 5 | 25 |
| 11 | 65 | 75 | 10 | 100 |
| 12 | 40 | 55 | 15 | 225 |
| 13 | 50 | 60 | 10 | 100 |
| 14 | 55 | 65 | 10 | 100 |
| 15 | 40 | 45 | 5 | 25 |
| 16 | 65 | 75 | 10 | 100 |
| 17 | 40 | 50 | 10 | 100 |
| 18 | 55 | 60 | 5 | 25 |
| 19 | 45 | 55 | 10 | 100 |
| 20 | 35 | 40 | 5 | 25 |
| 21 | 65 | 75 | 10 | 100 |
| 22 | 50 | 65 | 15 | 225 |
| 23 | 55 | 65 | 10 | 100 |
| 24 | 50 | 60 | 10 | 100 |
| 25 | 50 | 60 | 10 | 100 |
| N:25 |  ∑=1280 |  ∑=1500 |  ∑=220 |  ∑=2200 |

 (Source: Primary Data, Students Test Result, 24 May and 2 June)

1. 

  8.8

1. 

 = 2200-  = 2200 – 1938

 = 264

1. For the Experimental Group ( A Class )

The result of pre test and post test for experimental group and the data are :

 **Table 4.2 Result of the test for experimental group**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Pre test | Post test | D | d2 |
| 1 | 40 | 60 | 20 | 400 |
| 2 | 45 | 55 | 10 | 100 |
| 3 | 45 | 60 | 15 | 225 |
| 4 | 30 | 50 | 20 | 400 |
| 5 | 40 | 60 | 20 | 400 |
| 6 | 35 | 55 | 20 | 400 |
| 7 | 30 | 50 | 20 | 400 |
| 8 | 40 | 55 | 15 | 225 |
| 9 | 50 | 65 | 15 | 225 |
| 10 | 35 | 50 | 15 | 225 |
| 11 | 35 | 50 | 15 | 225 |
| 12 | 45 | 65 | 20 | 400 |
| 13 | 40 | 60 | 20 | 400 |
| 14 | 45 | 60 | 15 | 225 |
| 15 | 35 | 55 | 20 | 400 |
| 16 | 45 | 60 | 15 | 225 |
| 17 | 40 | 50 | 10 | 100 |
| 18 | 50 | 70 | 20 | 400 |
| 19 | 40 | 60 | 20 | 400 |
| 20 | 50 | 70 | 20 | 400 |
| 21 | 40 | 60 | 20 | 400 |
| 22 | 40 | 55 | 15 | 225 |
| 23 | 40 | 60 | 20 | 400 |
| 24 | 30 | 50 | 20 | 400 |
| 25 | 45 | 55 | 10 | 100 |
| N:25 |  ∑= 1010 |  ∑=2045 | ∑= 430 | ∑ = 7700 |

 (Source: Primary Data, Students Test Result, 24 May and 2 June)

1. 

 

 17.2

1. 

 = 7700-  = 7700 – 7396

 =304

**C. The Computation of *t* – Value for Two Sample Means**

**Table 4.3**

|  |  |  |
| --- | --- | --- |
| No | D | d (Experimental group ) |
| 1 | 10 | 20 |
| 2 | 10 | 10 |
| 3 | 5 | 15 |
| 4 | 10 | 20 |
| 5 | 0 | 20 |
| 6 | 10 | 20 |
| 7 | 10 | 20 |
| 8 | 10 | 15 |
| 9 | 5 | 15 |
| 10 | 5 | 15 |
| 11 | 10 | 15 |
| 12 | 15 | 20 |
| 13 | 10 | 20 |
| 14 | 10 | 15 |
| 15 | 5 | 20 |
| 16 | 10 | 15 |
| 17 | 10 | 10 |
| 18 | 5 | 20 |
| 19 | 10 | 20 |
| 20 | 5 | 20 |
| 21 | 10 | 20 |
| 22 | 15 | 15 |
| 23 | 10 | 20 |
| 24 | 10 | 20 |
| 25 | 10 | 10 |
|  | = 220 8.8 264 |  = 430  17.2304 |

1. t = 

 = 

 =

=

=

=

= 8.75

 The result of the students` achievement before being taught by using motion pictures, the total score of 24 students is 8.8 and after being taught by using motion pictures the total score of 24 students is 17.2. The result of was checked at the table value of *t* at 0.05 of significant t count is (2.06) and two – tailed test with db= 25. The result got in calculation t count = 8.75 and the value of t score table t0.05 = (2.06). Therefore, t count is bigger than t table. Its means that t count = 8.75> t table = 2.06, Ho is rejected and Ha is accepted. Therefore, based on calculation of *T-test* above, it can be said, “There is significant effect on the students` achievement by using motion pictures to improve the vocabulary of the fourth year students at SDN 2 Sawahan-Trenggalek.

**D. The Interpretation of the Quantitative Data**

The statistical value of t- Test was 8.75, while the critical value of *t-test* with degree of freedom 24. It’s showed that the statistical value of t count 8.75 was higher that the critical value of t table 2.06. It means that the alternative hypothesis was accepted and the null hypothesis was rejected. It can be concluded there was a significant effect. It means that teaching vocabulary by using motion pictures was significance influence and was more effective than without by using motion pictures.