# CHAPTER IV

# RESULT AND DISCUSSION OF RESEARCH

This chapter contains finding and discussion. The researcher also presents a discussion based on the finding of this study. The data obtained from the effect of taking course activity on students English learning achievement at ninth grade of SMPN 7 Pamekasan.

## A. Result of Research

In the research section, the researcher will describe the effect of taking course activity on students English learning achievement at ninth grade of SMPN 7 Pamekasan.

To find out the finding of this study, the researcher has given 15 questionnaires to students in class IXA and 15 questionnaires in class IXB. The questionnaire is in the form of a multiple choice test, a test given as many as 10 questions for each student with the same questions and the same score.

### 1. The Result of English Test IXA Class

Researcher conducted research in IXA class at 10.00 WIB, 13 March 2021, and conducted research again in IXA class at 09.30 WIB, 16 March 2021

Picture 1: Researcher give English test in IXA class on 13 March 2021.



Picture 2: Researcher give English test in IXA class on 16 March 2021.

To get the result of test IXA class, The researcher gave a questionnaire to students containing 10 questions. Students who were given a questionnaire were 15 students. The problem is in the form of multiple choices, namely A, B, C, and D.

4.1 The score of English test class IXA

| No | Name | Class | Score (X) | $X^2$ |
|----|------|-------|-----------|-------|
| 1. | Abil Abbas | A | 20 | 400 |
| 2. | Adelia Putri Raysha Santoso | A | 20 | 400 |
| 3. | Ahmad Ryan Maulana | A | 30 | 900 |
| 4. | Aldi Risky Mau Roby | A | 50 | 2500 |

| | | | | |
|---|---|---|---|---|
| 5. | Amin Jakfar | A | 60 | 3600 |
| 6. | Faizal Ansori | A | 20 | 400 |
| 7. | Khoirun Nisa | A | 60 | 3600 |
| 8. | Moh. Bambang Waluyo | A | 60 | 3600 |
| 9. | Moh. Ilzam Al Farisi | A | 50 | 2500 |
| 10. | Moh. Samsul Arifin | A | 40 | 1600 |
| 11. | Nailatul Nuristina | A | 60 | 3600 |
| 12. | R.A. Zahwa Dwi Vibrina | A | 30 | 900 |
| 13. | Reva Anggita Cahyani Yusuf | A | 60 | 3600 |
| 14. | Suci Nopiyawati | A | 60 | 3600 |
| 15. | Zulzilatin Nur Inayah | A | 70 | 4900 |
| **Total** | | | $\sum X = 690$ | $\sum_X 2 = 36100$ |

From the table above, the researcher found the result of test the students being tested. The highest score obtained by students IXA class is 70 and the lowest score is 20.

There are 3 students got a score of 20, 2 students got a score of 30, 1 students got a score of 40, 2 students got a score of 50, 6 students got a score of 60, and 1 students got a score of 70. It can be concluded that most of the students got a score of 60. High marks, the average is students who take the course activities. That is, taking course activities has any effect on students English learning achievement.

**Validity of the English Test**

The validity of the test always depends on situation and purpose of the test that used. A test that is valid for a situation may not be valid for other

situation. The purpose of the using test is also a factor in showing validity. Test is consisting of two types of validity namely, construct validity and content validity. Construct validity means the test that se to measure specific knowledge skill. Content validity means that in conducting test, the material will be including the material that was taught by the teacher. In other word, content validity namely the material has a relationship with the material presented by the teacher at school. So, in this research the researcher used content validity by showing the students English learning achievement. Therefore, this research instrument is valid, because:

1. This test is feasible

2. Item test support group variable

3. The test result are compare with the t-table

4. $T_o$> t-table means that the test is valid.

**Reliability of the English Test**

$$r_{11} = \left(\frac{k}{k-1}\right)\left(1 - \frac{M(k-M)}{k.V_t}\right)$$

Where:

K = 10

$$M = M = \frac{\sum X}{N}$$

$$= \frac{69}{15}$$

$$= 4,6$$

$$V_t = \frac{\sum x^2 \frac{(\sum x)^2}{N}}{N}$$

$$= \frac{361 - \frac{(69)^2}{15}}{15}$$

$$= \frac{361 - \frac{4{,}761}{15}}{15}$$

$$= \frac{361 - 317{,}4}{15}$$

$$= \frac{-10{,}4}{15}$$

$$= -0{,}69$$

$$r_{11} = \left(\frac{10}{10-1}\right)\left(1 - \frac{4.6(10-4{,}6)}{10 \ X \ (-0{,}69)}\right)$$

$$r_{11} = \left(\frac{10}{9}\right)\left(1 - \frac{4{,}6(5{,}4)}{-6{,}9}\right)$$

$$r_{11} = (1{,}1)\left(1 - \frac{24{,}84}{-6{,}9}\right)$$

$$r_{11} = (1{,}1) \ (1 - (-3{,}6))$$

$$r_{11} = (1{,}1) \ (4{,}6)$$

$$r_{11} = 5{,}06$$

The reliability of the test IXA class is 5,06. The result of reliability is higher that $r_{table}$ (5,06 > 0,482) it means that the test is reliable.

2. **The result of English Test IXB Class**

    Researcher conducted research in class IXB at 10.00 WIB, March 13, 2021, and conducted research again in class IXB at 09.45 WIB, March 16, 2021.



Picture 1: Researcher give English test in IXB class on 13 March 2021.

Picture 2: Researcher give English test in IXB class on 16 March 2021.

To get the result of test class IXB, he researcher also gave 10 multiple choice question to 15 student with the same questions for each students. To fine out the score of test, the researcher gave 10 scores for the correct answer and 0 score for the wrong answer.

4.2 The score of English test class IXB

| N0. | Name | Class | Score X | $X^2$ |
|---|---|---|---|---|
| 1. | Ach. Kadavi | B | 20 | 400 |
| 2. | Achmad David | B | 60 | 3600 |
| 3. | Alif Romadoni | B | 50 | 2500 |
| 4. | Anis Firdiyanti | B | 90 | 8100 |
| 5. | Eka Nur Wijayanto | B | 90 | 8100 |
| 6. | Indah Mulya Kartika Sari | B | 60 | 3600 |
| 7. | M. Alfarisi | B | 50 | 2500 |
| 8. | Mia Lisdianti | B | 80 | 6400 |
| 9. | Moh. Irfan Irhamna | B | 40 | 1600 |
| 10. | Moh. Septianto Habibul Anwar | B | 60 | 3600 |

| 11. | Noer Yulia Safriani | B | 50 | 2500 |
|---|---|---|---|---|
| 12. | Sri Asnanik | B | 60 | 3600 |
| 13. | Supriyanti Efaniyah | B | 90 | 8100 |
| 14. | Wildatus Safitri Imami | B | 60 | 3600 |
| 15. | Yoga Adi Saputra | B | 80 | 6400 |
| **Total** | | | $\sum X = 940$ | $\sum_X 2 = 64600$ |

From the table above, it can be seen that 1 of 15 students get a score of 20, 1 of 15 students get a score of 40, 3 of students get a score of 50, 5 of 15 students get a score of 60, 2 of 15 students get a score of 80, and 3 0f 15 students get a score of 90. The highest score obtained by students of class IXB is 90 and lowest score is 20. This means the taking course activity has any effect on students English learning achievement.

Researcher also found that were some students got low scores on the test given. However, they did not participate in the course activity.

**Validity of the EnglishTest**

In this study, researcher use content validity. The content of validity means that the material is related to the material presented by the researcher at school. Therefore the research instrument is valid, because:

1. This test is feasible

2. Item test support group variables

3. The test result are compared with the t-table

4. $T_o >$ t-table means that the test is valid.

Reliability of Test

$$r_{11=} \left( \frac{k}{k-1} \right) \left( 1 - \frac{M(k-M)}{k.V_t} \right)$$

Where:

K = 10

$$M = M = \frac{\sum X}{N}$$

$$= \frac{94}{15}$$

$$= 6{,}26$$

$$V_t = \frac{\sum x^2 \frac{(\Sigma x)^2}{N}}{N}$$

$$= \frac{646 - \frac{(94)^2}{15}}{15}$$

$$= \frac{646 - \frac{8{,}836}{15}}{15}$$

$$= \frac{646 - 58{,}90}{15}$$

$$= \frac{-5{,}24}{15}$$

$$= -3{,}496$$

$$r_{11} = \left(\frac{10}{10-1}\right)\left(1 - \frac{6{,}26(10-6{,}26)}{10 \text{ X } (-3{,}496)}\right)$$

$$r_{11} = \left(\frac{10}{9}\right)\left(1 - \frac{6{,}26(3{,}74)}{-34{,}96}\right)$$

$$r_{11} = (1{,}1)\left(1 - \frac{23{,}42}{-34{,}96}\right)$$

$$r_{11} = (1,1)\ (1 - (-0,66))$$

$$r_{11} = (1,1)\ (1,66)$$

$$r_{11} = 1{,}826$$

The reliability of the test IXB class is 1,826. The result of reliability is higher that $r_{table}$ (1,826 > 0,482) So, the researcher conclude that the test of IXB class is reliable.

## B. Hypothesis Test

### 1. The Effect of Taking Course Activity on Students English Learning Achievement.

After giving the test to the students IXA and IXB class, the researcher calculate and found the effect of taking course activity by the formula "t" t-test.

1.3 The calculation of the effect of taking course activity.

| No | Name | Score (D) | $D^2$ |
|----|------|-----------|-------|
| 1. | Abil Abbas | 20 | 400 |
| 2. | Adelia Putri Raysha Santoso | 20 | 400 |
| 3. | Ahmad Ryan Maulana | 30 | 900 |
| 4. | Aldi Risky Mau Roby | 50 | 2500 |
| 5. | Amin Jakfar | 60 | 3600 |
| 6. | Faizal Ansori | 20 | 400 |
| 7. | Khoirun Nisa | 60 | 3600 |
| 8. | Moh. Bambang Waluyo | 60 | 3600 |
| 9. | Moh. Ilzam Al Farisi | 50 | 2500 |
| 10. | Moh. Samsul Arifin | 40 | 1600 |
| 11. | Nailatul Nuristina | 60 | 3600 |
| 12. | R.A. Zahwa Dwi Vibrina | 30 | 900 |
| 13. | Reva Anggita Cahyani Yusuf | 60 | 3600 |
| 14. | Suci Nopiyawati | 60 | 3600 |
| 15. | Zulzilatin Nur Inayah | 70 | 4900 |

| 16. | Ach. Kadavi | 20 | 400 |
|-----|-------------|-----|-----|
| 17. | Achmad David | 60 | 3600 |
| 18. | Alif Romadoni | 50 | 2500 |
| 19. | Anis Firdiyanti | 90 | 8100 |
| 20. | Eka Nur Wijayanto | 90 | 8100 |
| 21. | Indah Mulya Kartika Sari | 60 | 3600 |
| 22. | M. Alfarisi | 50 | 2500 |
| 23. | Mia Lisdianti | 80 | 6400 |
| 24. | Moh. Irfan Irhamna | 40 | 1600 |
| 25. | Moh. Septianto Habibul Anwar | 60 | 3600 |
| 26. | Noer Yulia Safriani | 50 | 2500 |
| 27. | Sri Asnanik | 60 | 3600 |
| 28. | Supriyanti Efaniyah | 90 | 8100 |
| 29. | Wildatus Safitri Imami | 60 | 3600 |
| 30. | Yoga Adi Saputra | 80 | 6400 |
| **Total** | | $\sum D = 1630$ | $\sum_D 2 = 100700$ |

Explanation :

N     = 30

$\sum D$   = 1630

$\sum_D 2$ = 100700

The step to counting t-test are as follow:

a. Looking for mean of difference :

$$M_{D} = \frac{\sum D}{N}$$

$$M_D = \frac{1630}{30}$$

$$= 54,33$$

b. Square all of D score. And then, add all of square D score.

c. Determining standard deviation from D :

$$SD_D = \sqrt{\frac{\Sigma_D 2}{N}} \sqrt{\frac{(\Sigma_D)2}{N}}$$

$$= \sqrt{\frac{100700}{30}} - \sqrt{\frac{(1630)^2}{30}}$$

$$= \sqrt{3,356 - (54,33)^2}$$

$$= \sqrt{3,356 - 2,951}$$

$$= \sqrt{0,405}$$

$$= 0,636$$

d. Determining standard error of mean of D :

$$SE_{MD} = \frac{SD_D}{\sqrt{N-1}}$$

$$= \frac{0,636}{\sqrt{30-1}}$$

$$= \frac{0,636}{\sqrt{29}}$$

$$= \frac{0,636}{5,38}$$

$$= 0,11$$

e. After that the researcher can determining $t_o$ :

$$t_o = \frac{M_D}{SE_{MD}}$$

$$= \frac{54,33}{0,11}$$

$$= 494$$

The result of t "$t_o$" test from the data above is 494 meaning from the calculate above shows that there is an effect of variable X on variable Y. so, the researcher concludes that the taking course activity has an effect on students English learning achievement.

2. **The Statically of Taking Course Activity on Students English Learning Achievement.**

Based on the result of the study in the previous explanation, associated with the acceptance of the dependent variable and the independent variable, it means that there is statically effect on student English learning achievement. Because based on the result, of the study in the previous explanation, the researcher found that the result of English test of student IXA and IXB class were higher than the t-table, meaning that there was a positive effect on student English learning achievement and result of validity of English test is valid and reliability of English test is reliable. So, that it can be stated that the alternative hypothesis (Ha) is accepted and the null hypothesis (Ho) is rejected. It can be seen from the result of the t-test is higher than the t-table.

C. **Discussion of Research**

In the previous chapter, researchers have analyzed data from the result of test that have been given to students at IXA and IXB of SMP Negeri 7 Pamekasan. Analysis is used to see the propose of the study and the results of research problems in the previous chapter entitled the effect of taking course activity on students English achievement at ninth grade of SMP Negeri 7 Pamekasan.

In this section of discussion, the researcher wants to explain about the effect and also statically variable X and variable Y.

1. **The Effect of Taking Course Activity on Students English Learning Achievement.**

   To find out the finding of this study, the researcher has given 15 questionnaires to students in IXA class and 15 questionnaires in IXB class. The questionnaire is in the form of a multiple choice test, a test given as many as 10 questions for each student with the same questions and the same score. The researcher found the test result of the students being tested. The highest score obtained student in IXA class is 70 and the lowest score is 20. There are 3 students got a score of 20, 2 students got a score of 30, 1 students got a score of 40, 2 students got a score of 50, 6 students got a score of 60, and 1 students got a score of 70. It can be concluded that most of the students got a score of 60. And researchers also found the result of test in IXB class that, there is 1 of 15 students get a score of 20, 1 of 15 students get a score of 40, 3 of students get a score of 50, 5 of 15 students get a score of 60, 2 of 15 students get a score of 80, and 3 0f 15 students get a score of 90. The highest score obtained by students of IXB class is 90 and lowest score is 20. Researcher also found that were some students got low scores on the test given. However, they did not participate in the course activity.

   From the data above, researchers conclude that the taking course activity has any effect on students English learning achievement.

2. **The Statically of Taking Course Activity on Students English Learning Achievement.**

Based on the result of the study in the previous explanation, The researcher found that the result of t-test of student IXA and IXB class were higher than the t-table. The result of reliability English test of IXA class is 5,06, and the result of reliability English test of IXB class is 1,826. So, the data English test is reliable because the result of English test higher than the t-table. For the result of t-test, there is statically effect both of variables by looking the result of t-test (494). So, it can be stated that the alternative hypothesis (Ha) is accepted and the null hypothesis (Ho) is rejected.