## CHAPTER IV

## RESULT OF FINDINGS AND DISCUSSION

In this chapter the researcher presents the result of the research in the field. The researcher present consists of description of data, hypothesis testing, and discussion

## A. Presentation of Data

Data presentation aims to present data after it has been collected, namely by obtaining researcher when conducting research. The data to be presented must be in the form of real data and data based on research instruments that have been used. And the researcher in this research used tests (pre-test and posttest) and documentation to collect data.

## 1. The Result of Data Test

The data of this research are values taken from the students' pre-test and post-test score what they do is reading comprehension especially in narrative text. This research was conducted by researcher at Senior High School 1 Galis starting August $25^{\text {th }}, 2022$, requested permission to conduct research conducted in the tenth grade at Senior High School 1 Galis and this research was accepted on the same day. Then the researcher continued his research which actually started on September $22^{\text {nd }}, 2022$ until October 6, 2022.

In this research, the researcher used Experimental design exactly Pre-experimental design which is to test where the students who are thought
by Classwide Peer Tutoring strategy as variable X (dependent variable) have better achievement in their reading comprehension as variable Y (independent variable) than those who are not and to measure significant is difference before and after using Classwide Peer Tutoring strategy towards students' reading comprehension of the tenth grade at Senior High School 1 Galis. The researcher also need students test scores as data to measure students' reading comprehension as well as documentation related to this research.

For the test in this research, the researcher used a multiple choice test, which consists of 20 questions pre-test and 20 questions post-test. Question from the test between the pre-test and post-test that will be given is a different question, but still based on the same topics that have been taught. Tests based on topics that have been taught is narrative text that is about folklore. Then for the test assessment, the researcher gave 5 points for 1 question for the correct answer. But for the wrong answer the researcher give 0 points. So students will get 100 marks if they answer 20 questions correctly.

## 2. The Result of Pre-Test

The researcher conducted a pre-test to students to find out students' scores in their reading comprehension of multiple choice narrative text in front of the researcher. The researcher gave a pre-test for students of class X IPA 1 at 08.25 a.m on September $22^{\text {nd }}, 2022$. Class X IPA 1 consists of 26 students who do a pre-test as a sample in this research. The researcher
used initial name to maintain sample privacy. And the result of the pre-test are present in the following table:

Table 1: The Result of Pre-test Score

$$
\text { X IPA } 1
$$

| No | Name | Score |
| :---: | :--- | :---: |
| 1. | A J | 75 |
| 2. | A B D E | 25 |
| 3. | B P A K | 25 |
| 4. | B R | 50 |
| 5. | E N F | 40 |
| 6. | F S | 80 |
| 7. | F F Y | 40 |
| 8. | H D P A | 55 |
| 9. | H F | 90 |
| 10. | I A | 75 |
| 11. | I T | 85 |
| 12. | I S | 45 |
| 13. | K S H | 50 |
| 14. | K K | 95 |
| 15. | L N | 45 |
| 16. | M D S | 95 |
| 17. | M F | 60 |
| 18. | M M | 75 |
| 19. | M R K | 70 |
| 20. | M R R | 65 |
| 21. | P C A H | 95 |
| 22. | R T I | 65 |
| 23. | R A F | 80 |
| 24. | T F |  |
| 25. | W S N F |  |


| $26,$. | Y A A | 80 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| SUM |  |  |  | $\mathbf{1 7 1 5}$ |
|  |  |  |  |  |

In the table above (Table 1) are the pre-test values of X IPA 1 was before taught using Classwide Peer Tutoring strategy in students' reading comprehension correctly in narrative text. The total score obtained is 1715 and the mean is 65,96 . Three students score 95 , one students score 90 , only one student score 85 , four students score 80 , four students score 75 , one student score 70 , two students score 65 , one student score 60 , one student score 55 , two students score 50 , two students score 45 , two student score 40 , and two students score 25 . So the students who get scores above the minimum completeness criteria are 14 students and the remaining 12 students get scores below the minimum completeness criteria.

## 3. The Presentation of Treatment

In this research, the researcher gave 2 treatments to the tenth grade students of Senior High School 1 Galis. Before being given treatment, the researcher obtained the pre-test score of 26 students as the sample. The researcher gave treatment to the students using technique namely Classwide Peer Tutoring Strategy.
a. In the first treatment in this research, the researcher started the research on Thursday on September 29, 2022 starting at 08.25 in class X IPA 1. The duration of time used is 80 minutes ( 2 JP ). The process of giving this treatment was carried out in several steps by researcher to students. The steps for giving treatment are as follows:

1) The researcher enters the class and greets the students.
2) Researcher and students pray before the research begins.
3) The researcher greets and asks students how they are
4) Then, the researcher checks the students attendance.
5) The next activity is the researcher applies the Classwide Peer Tutoring strategy by dividing students into 4 groups, 1 group consisting of 6-7 people.
6) The researcher asks students to gather in their groups, then gives instructions to open the students textbook on page 157-160.
7) After that, the researcher asked each group to pay attention to narrative text on page 157-159.
8) In each group, researcher have divided students who will become tutor and tutee. Tutor are students who have more abilities that the tutee and will deliver the material to the tutee as a listener.
9) The researcher asked the tutor to deliver material about the narrative text about folklore, namely Issumboshi.
10) The tutor explain the text from Issumboshi, while the tutee listens and notes important information or something that is not understood in the text.
11) After the tutor delivered the material to the tutee, the next activity the researcher gave some questions about content of the text.
12) The researcher asks each group to come forward and answer the questions that have been given by the researcher. This activity is to determine the students' reading comprehension ability.
13) Then, the researcher discusses together the questions that have been answered by beach group and provides assessment and evaluation to students.
14) This final activity, the researcher said thank you, prayed and said closing greetings.
b. In the second treatment was different from the first treatment. In the second treatment starting on Thursday, October 6 2022. That starting at 08.25 in class X IPA 1. The duration of time used is 80 minutes ( 2 JP ). The process of giving this treatment was carried out in several steps by researcher to sudents.

The steps for giving treatment are as follows:

1) The researcher enters the class and greet the students.
2) The researcher and students pray before the lesson begins.
3) The researcher greets and ask students how they are.
4) Then, the researcher cheeks the students attendance.
5) The researcher asks students to join their groups
6) After that, the researcher distributed a narrative text sheet about the folklore of Lake Toba to all students.
7) The researcher asked the tutor to convey material about the Lake Toba folklore to the tutee, while the tutee listened and noted important things from the tutor explanation.
8) The researcher supervises each group.
9) Then after the tutor finished delivering the material about the Lake Toba folklore, the tutor invited him to ask something he didn't understand.
10) If the tutor has explained all the material, the panelist will give a game in the form of a quiz.
11) The quiz is done if the researcher has read the question, then the student can raise his hand and whoever is faster then he will be the one to answer the question.
12) If the question is answered correctly, then the group gets 1 star, but if the answer is wrong, it will be thrown to another group. The quiz makes students enthusiastic to be able to answer the questions given by the researcher.
13) After the game is over, the researcher evaluates and assesses the students about their reading comprehension in narrative text about folklore using the Classwide Peer Tutoring Strategy.
14) At the end of the activity, the researcher said thank you, read the prayer, and said closing greetings.

## 4. The result of post-test

After the researcher gave treatment to the students of class X IPA 1 as much as 2 times treatment, then the researcher gave a post-test to find out how far the use of Classwide Peer Tutoring strategy was effective and made students' reading comprehension better on the narrative text that has been done. Post-test is given on the same day as the second treatment on Thursday the date October 6, 2022, for class X IPA 1 after being given the second
treatment. For the post-test questions, it is not much different from the pretest, namely students must answer 20 questions in multiple choice form. Here is a table of data obtained from the post-test after the second treatment was given by the researcher:

Table 2: The Result of Post-test Score

$$
\text { X IPA } 1
$$

| No Name | Score |  |
| :---: | :--- | :---: |
| 1. | A J | 85 |
| 2. | A B D E | 30 |
| 3. | B P A K | 90 |
| 4. | B R | 35 |
| 5. | E N F | 60 |
| 6. | F S | 100 |
| 7. | F F Y | 35 |
| 8. | H D P A | 65 |
| 9. | H F | 65 |
| 10. | I A | 75 |
| 11. | I T | 60 |
| 12. | I S | 70 |
| 13. | K S H | 55 |
| 14. | K K | 100 |
| 15. | L N | 60 |
| 16. | M D S | 75 |
| 17. | M F | 75 |
| 18. | M M | 70 |
| 19. | M R K | 80 |
| 20. | M R R | 75 |
| 21. | P C A H | 90 |
| 22. | R T I | 35 |
|  |  |  |


| 23. | R A F | 50 |
| :---: | :--- | :---: |
| 24. | T F | 70 |
| 25. | W S N F | 70 |
| 26. | Y A A | 90 |
|  |  | $\mathbf{1 7 6 5}$ |
|  |  |  |

In the table above (table 2) the post-test scores of students' after being taught using Classwide Peer Tutoring strategies in class X IPA 1 on reading comprehension. The total post-test scores 1765 and the mean is 67,88 . Those who got perfect scores or 100 were two students, three students scored 90 , only one student score 85 , one student scored 80 , fourth students scored 75 , fourth students score 70 , three students score 65 , three students score 60 , one student score 55 , three students score 35 , and only one student got 30 . So the students who get scores above the minimum completeness criteria are 15 students and the remaining 11 students get scores below the minimum completeness criteria.

## 5. Documentation

Documentation is looking for data about something or variable that includes note, transcipt, books, newspaper, magazine, epigraphy, notes of the meeting, agenda, and others. ${ }^{1}$ In this research documentation used by researcher when collecting data and making it easier for the researcher to collect data related to the material that will be targeted by later research. Some of documentation are:
a. List of students' names for class X IPA 1 at Senior High School 1 Galis

[^0]b. Lesson plan
c. An overview of the research process when conducting research in class X IPA 1 at Senior High School 1 Galis
d. Question sheet from pre-test and post-test
e. Total students scores on pre-test and post-test
f. Topic material taught (narrative text)

## 6. Validity and Reliability

a. Validity

Validity indicates the extent to which the measuring instrument is measure what you want. An instrument is considered valid if it can reveal data from the variable studied appropriately. ${ }^{2}$ From several types of validity, so the researcher decided to use content validity in this research, because the researcher want to know the exten of the material that will be tested and taught by researcher in schools. Where knowledge and skills will also be assessed.

So in this research, the content of the material taught and applied to the questions given by the researcher to students was the same or matched. This can be said to be valid, because the material being taught and tested is both about narrative text on reading comprehension for students of class X IPA 1 at Senior High School 1 Galis. The following is a table of validity test result by using the SPSS application:

[^1]Table 3: Validity of Pre-test

Pretest
Correlations

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \& \& 1 \& 2 \& 3 \& 4 \& 5 \& 6 \& 7 \& 8 \& 9 \& 10 \& 11 \& 12 \& 13 \& 14 \& 15 \& 16 \& 17 \& 18 \& 19 \& 20 \& Total \\
\hline 1 \& Pearson Correlati on \& 1 \& \[
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\& 27 \\
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\begin{aligned}
\& , 0 \\
\& 37
\end{aligned}
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\begin{array}{r}
, 0 \\
12
\end{array}
\] \& \[
\begin{aligned}
\& .3 \\
\& 72
\end{aligned}
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\begin{array}{r}
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\end{array}
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\begin{aligned}
\& , 1 \\
\& 82
\end{aligned}
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\end{aligned}
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\] \& . \(457{ }^{* *}\) \\
\hline \& Sig. (1tailed) N \& 26 \& \[
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\hline 2 \& Pearson Correlati on Sig. (1tailed) N \& \[
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56 \\
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10 \\
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\begin{array}{r}
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, 1 \\
25 \\
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\end{array}
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\& \hline \text { Soal_ } \\
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\end{array}
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81 \\
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\end{array}
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\end{array}
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Pearson \\
Correlati \\
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.571^{* *} \\
.001 \\
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\end{array}
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\hline \[
\begin{aligned}
\& \text { Soal_ } \\
\& 5
\end{aligned}
\] \& Pearson Correlati on Sig. (1tailed) N \& \[
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3 \\
09 \\
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62 \\
26
\end{array}
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83 \\
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\end{array}
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1 \\
14 \\
, 2 \\
90 \\
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\end{array}
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18 \\
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\end{array}
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\end{array}
\] \& \[
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26
\end{array}
\] \& \[
\begin{array}{r}
, 0 \\
98 \\
, 3 \\
18 \\
26 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
.7 \\
40 \\
4 \\
0 \\
00 \\
26
\end{array}
\] \& \[
\begin{array}{r}
, 1 \\
44 \\
, 2 \\
42 \\
26
\end{array}
\] \& \[
\begin{array}{r}
.502^{* *} \\
, 004 \\
26
\end{array}
\] \\
\hline \[
\begin{aligned}
\& \hline \text { Soal_ } \\
\& 6
\end{aligned}
\] \& Pearson Correlati on Sig. (1tailed) N \& \[
\begin{array}{r}
, 3 \\
24 \\
, 0 \\
53 \\
26 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
, 1 \\
44 \\
, 2 \\
41 \\
26
\end{array}
\] \& \[
\begin{array}{r}
, 0 \\
98 \\
, 3 \\
18 \\
26
\end{array}
\] \& \[
\begin{array}{r}
, 0 \\
83 \\
, 3 \\
43 \\
26 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
, 2 \\
56 \\
, 1 \\
03 \\
26
\end{array}
\] \& 1
26 \& \begin{tabular}{l}
\[
\begin{array}{r}
2 \\
14
\end{array}
\] \\
1
47
\[
26
\]
\end{tabular} \& \[
\begin{array}{r}
4 \\
80 \\
8 \\
, 0 \\
06 \\
26
\end{array}
\] \& \[
\begin{array}{r}
.3 \\
88 \\
+ \\
, 0 \\
25 \\
26
\end{array}
\] \& \[
\begin{array}{r}
, 0 \\
71 \\
, 3 \\
64 \\
26
\end{array}
\] \& \[
\begin{array}{r}
, 2 \\
83 \\
, 0 \\
81 \\
26
\end{array}
\] \& \[
\begin{array}{r}
, 2 \\
56 \\
, 1 \\
03 \\
26
\end{array}
\] \& \[
\begin{array}{r}
, 0 \\
51 \\
, 4 \\
01 \\
26
\end{array}
\] \& \[
\begin{array}{r}
, 1 \\
16 \\
, 2 \\
87 \\
26
\end{array}
\] \& \[
\begin{array}{r}
, 0 \\
61 \\
, 3 \\
84 \\
26
\end{array}
\] \& \[
\begin{array}{r}
, 1 \\
37 \\
, 2 \\
52 \\
26
\end{array}
\] \& \[
\begin{array}{r}
, 2 \\
14 \\
, 1 \\
47 \\
26
\end{array}
\] \& \[
\begin{array}{r}
, 2 \\
19 \\
, 1 \\
42 \\
26
\end{array}
\] \& \[
\begin{array}{r}
, 0 \\
93 \\
, 3 \\
26 \\
26 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
, 1 \\
34 \\
, 2 \\
57 \\
26
\end{array}
\] \& .347

, 041
26 <br>

\hline \[
$$
\begin{aligned}
& \text { Soal_ } \\
& { }_{7}
\end{aligned}
$$

\] \& | Pearson |
| :--- |
| Correlati |
| on |
| Sig. (1- |
| tailed) N | \& \[

$$
\begin{array}{r}
, 1 \\
82 \\
, 1 \\
86 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
82 \\
, 1 \\
86 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
33 \\
, 1 \\
26 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
4 \\
82 \\
8 \\
, 0 \\
06 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.5 \\
84 \\
+ \\
, 0 \\
01 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
14 \\
, 1 \\
47 \\
26
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
, 0 \\
07 \\
, 4 \\
87 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
.4 \\
14 \\
+ \\
, 0 \\
18 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
34 \\
, 2 \\
57 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
29 \\
4 \\
44 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
23 \\
, 2 \\
74 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
59 \\
, 2 \\
19 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
59 \\
, 2 \\
19 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
33 \\
, 1 \\
26 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
05 \\
, 3 \\
05 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
4 \\
14 \\
+ \\
, 0 \\
18 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
29 \\
, 4 \\
44 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 3 \\
24 \\
, 0 \\
53 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
23 \\
, 4 \\
56 \\
26
\end{array}
$$
\] \& $.517^{* *}$

, 003
26 <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 8
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
, 2 \\
12 \\
, 1 \\
49 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
96 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
83 \\
, 0 \\
81 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
44 \\
, 2 \\
41 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
23 \\
, 4 \\
56 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
4 \\
80 \\
4 \\
, 0 \\
06 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
07 \\
, 4 \\
87 \\
26
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
, 0 \\
07 \\
, 4 \\
87 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
1 \\
44 \\
, 2 \\
41 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
72 \\
, 0 \\
89 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
83 \\
, 0 \\
81 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
04 \\
, 3 \\
07 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
04 \\
, 3 \\
07 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
, 0 \\
37 \\
, 4 \\
29 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
31 \\
, 4 \\
39 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
82 \\
, 1 \\
86 \\
26
\end{array}
$$
\] \& , 0

65
, 3
76

26 \& $$
\begin{array}{r}
1 \\
78 \\
, 1 \\
92 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 1 \\
69 \\
, 2 \\
05 \\
26
\end{array}
$$
\] \& $.380 *$

, 028
26 <br>
\hline
\end{tabular}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 9
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& $$
\begin{array}{r}
, 0 \\
07 \\
, 4 \\
87 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 0 \\
07 \\
, 4 \\
87 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
95 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
.4 \\
82 \\
4 \\
, 0 \\
06 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 1 \\
44 \\
, 2 \\
42 \\
26
\end{array}
$$ \& $$

$$ \& \[
\begin{array}{r}
.4 <br>
14 <br>

+ <br>
, 0 <br>
18 <br>
26
\end{array}

\] \& \[

$$
\begin{array}{r}
0 \\
07 \\
\\
\hline 4 \\
87 \\
26
\end{array}
$$
\] \& 1

26 \& , 1
34

, 2
57

26 \& $$
\begin{array}{r}
, 0 \\
29 \\
, 4 \\
44 \\
26
\end{array}
$$ \& , 0

55

, 3
95
26 \& 1
59

2
19

26 \& $$
\begin{array}{r}
1 \\
59 \\
, 2 \\
19 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
95 \\
26
\end{array}
$$
\] \& 2

87

0
77

26 \& $$
\begin{array}{r}
, 2 \\
18 \\
, 1 \\
42 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
.4 \\
05 \\
, \\
0 \\
20 \\
26
\end{array}
$$
\] \& 2

19
, 1
41

26 \& $$
\begin{array}{r}
, 0 \\
23 \\
, 4 \\
56 \\
26
\end{array}
$$ \& $.345 *$

, 042
26 <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 10
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
3 \\
00 \\
0 \\
0 \\
68 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
4 \\
56 \\
4 \\
, 0 \\
10 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
, 0 \\
98 \\
, 3 \\
18 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
26 \\
, 1 \\
33 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
60 \\
, 3 \\
85 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
71 \\
, 3 \\
64 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
34 \\
, 2 \\
57 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
44 \\
, 2 \\
41 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
34 \\
, 2 \\
57 \\
26 \\
\hline
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
, 0 \\
51 \\
, 4 \\
01 \\
26
\end{array}
$$ \& , 0

61
, 3
84

26 \& $$
\begin{array}{r}
5 \\
53 \\
\text { 4 } \\
, 0 \\
02 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 0 \\
51 \\
, 4 \\
01 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
20 \\
, 1 \\
41 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.4 \\
62 \\
* \\
, 0 \\
09 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
23 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
51 \\
, 4 \\
01 \\
26
\end{array}
$$
\] \& , 0

93
, 3
26

26 \& $$
\begin{array}{r}
4 \\
82 \\
8 * \\
, 0 \\
06 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
.475 * \\
, 007 \\
26
\end{array}
$$
\] <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 11
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
- \\
, 0 \\
65 \\
, 3 \\
76 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
, 2 \\
34 \\
, 1 \\
25 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
19 \\
, 1 \\
42 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 3 \\
09 \\
, 0 \\
62 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
83 \\
, 0 \\
81 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
29 \\
, 4 \\
44 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
72 \\
, 0 \\
89 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
29 \\
, 4 \\
44 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
51 \\
, 4 \\
01 \\
26
\end{array}
$$
\] \& 1

26 \& , 3
29
, 0
50

26 \& $$
\begin{array}{r}
, 0 \\
97 \\
, 3 \\
18 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
- \\
83 \\
83 \\
, 3 \\
43 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.5 \\
01 \\
4 \\
, 0 \\
05 \\
26
\end{array}
$$
\] \& , 0

40
, 4
22

26 \& $$
\begin{array}{r}
1 \\
59 \\
, 2 \\
19 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 0 \\
97 \\
, 3 \\
18 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
81 \\
8 \\
82 \\
82 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
29 \\
, 4 \\
44 \\
26
\end{array}
$$
\] \& $.376 *$

, 029

26 <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 12
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
, 0 \\
37 \\
, 4 \\
29 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
37 \\
, 4 \\
29 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
88 \\
, 1 \\
80 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
61 \\
, 3 \\
84 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
85 \\
, 1 \\
83 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
56 \\
, 1 \\
03 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
23 \\
, 2 \\
74 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
83 \\
, 0 \\
81 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
95 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
61 \\
, 3 \\
84 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 3 \\
29 \\
, 0 \\
50 \\
26
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

\] \& \[

$$
\begin{array}{r}
, 0 \\
89 \\
, 3 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
95 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 3 \\
29 \\
, 0 \\
50 \\
26
\end{array}
$$
\] \& ,0

38
, 4
27

26 \& $$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
95 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
.363^{*} \\
.034 \\
26
\end{array}
$$
\] <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 13
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
, 1 \\
04 \\
, 3 \\
07 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
72 \\
, 0 \\
89 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
51 \\
, 4 \\
01 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
14 \\
, 2 \\
90 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
51 \\
, 4 \\
01 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
59 \\
, 2 \\
19 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
04 \\
, 3 \\
07 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
59 \\
, 2 \\
19 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
5 \\
53 \\
4 \\
, 0 \\
02 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
97 \\
, 3 \\
18 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
, 0 \\
97 \\
, 3 \\
18 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 3 \\
29 \\
, 0 \\
50 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
16 \\
, 1 \\
45 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
47 \\
* \\
, 0 \\
41 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
97 \\
, 3 \\
18 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
20 \\
, 4 \\
61 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
59 \\
, 2 \\
19 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.459 * \\
\\
.009 \\
26
\end{array}
$$
\] <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 14
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
, 2 \\
72 \\
, 0 \\
89 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
72 \\
, 0 \\
89 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
13 \\
, 4 \\
75 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
19 \\
, 1 \\
42 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
98 \\
, 3 \\
18 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
16 \\
, 2 \\
87 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
59 \\
, 2 \\
19 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
04 \\
, 3 \\
07 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
59 \\
, 2 \\
19 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
51 \\
, 4 \\
01 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
83 \\
83 \\
43 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
97 \\
, 3 \\
18 \\
26 \\
\hline
\end{array}
$$

\] \& 26 \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
16 \\
, 1 \\
45 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
47 \\
* \\
, 0 \\
41 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
78 \\
, 0 \\
85 \\
26
\end{array}
$$
\] \& ,2

81
, 0
82

26 \& $$
\begin{array}{r}
, 1 \\
59 \\
, 2 \\
19 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
.459 * \\
\\
.009 \\
26
\end{array}
$$
\] <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 15
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
-1 \\
97 \\
, 1 \\
67 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
, 1 \\
97 \\
, 1 \\
67 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
88 \\
, 1 \\
80 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
78 \\
\times \\
, 0 \\
28 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
16 \\
, 1 \\
45 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
61 \\
, 3 \\
84 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
33 \\
, 1 \\
26 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
37 \\
, 4 \\
29 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
95 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
20 \\
, 1 \\
41 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.5 \\
01 \\
\times \\
, 0 \\
05 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
50 \\
* \\
, 0 \\
40 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 3 \\
29 \\
, 0 \\
50 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$
\] \& 1

26 \& $$

$$ \& \[

$$
\begin{array}{r}
.4 \\
11 \\
\times \\
, 0 \\
18 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 3 \\
29 \\
, 0 \\
50 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
09 \\
, 1 \\
52 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
95 \\
26
\end{array}
$$
\] \& $.520 * *$

, 003
26 <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 16
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
, 0 \\
31 \\
, 4 \\
39 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
31 \\
, 4 \\
39 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
77 \\
, 3 \\
55 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.4 \\
62 \\
, 0 \\
09 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
94 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
37 \\
, 2 \\
52 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
05 \\
, 3 \\
05 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
31 \\
, 4 \\
39 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
87 \\
, 0 \\
77 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.4 \\
62 \\
, 0 \\
09 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
22 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
89 \\
, 3 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
16 \\
, 1 \\
45 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
16 \\
, 1 \\
45 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.4 \\
22 \\
, 0 \\
16 \\
26
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
, 0 \\
77 \\
, 3 \\
54 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
.3 \\
91 \\
, 0 \\
24 \\
26
\end{array}
$$
\] \& , 0

10
, 4
81
26 \& .4
70
$*$
, 0
08

26 \& | $.468 *$ |
| :--- |
| ,008 |
| 26 | <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 17
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) \& \[

$$
\begin{array}{r}
1 \\
82 \\
, 1 \\
86
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
07 \\
, 4 \\
87
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
33 \\
, 1 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
34 \\
, 2 \\
57
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
64 \\
\\
, 0 \\
34
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
14 \\
, 1 \\
47
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.4 \\
14 \\
+ \\
, 0 \\
18
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
82 \\
, 1 \\
86
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
2 \\
18 \\
, 1 \\
42
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
23
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
59 \\
, 2 \\
19
\end{array}
$$
\] \& , 0

55

, 3

95 \& $$
\begin{array}{r}
.3 \\
47 \\
* \\
, 0 \\
41
\end{array}
$$ \& \[

$$
\begin{array}{r}
.3 \\
47 \\
* \\
, 0 \\
41
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.4 \\
11 \\
\text { * } \\
0 \\
18
\end{array}
$$
\] \& , 0

77
, 3

54 \& 1 \& $$
\begin{array}{r}
, 0 \\
29 \\
, 4 \\
44
\end{array}
$$ \& .5

95
4
0
0
0 \& 1
73
, 1
99 \& $.496 * *$
, 005 <br>
\hline
\end{tabular}

|  | N | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Soal_ } \\ & 18 \end{aligned}$ | Pearson Correlati on Sig. (1tailed) N | $\begin{aligned} & , 2 \\ & 72 \end{aligned}$ | $\begin{array}{r} , 2 \\ 72 \end{array}$ | $\begin{array}{r} , 1 \\ 58 \end{array}$ | $\begin{aligned} & , 0 \\ & 51 \end{aligned}$ | $\begin{aligned} & , 0 \\ & 98 \end{aligned}$ | $\begin{array}{r} 2 \\ 19 \end{array}$ | , 0 | $\begin{array}{r} , 0 \\ 65 \end{array}$ | .4 05 | ,0 | , 9 | $\begin{array}{r} 3 \\ 29 \\ \hline \end{array}$ | $\begin{array}{r} , 0 \\ 97 \end{array}$ | $\begin{aligned} & 2 \\ & 78 \end{aligned}$ | $\begin{array}{r} , 3 \\ 29 \end{array}$ | $\begin{array}{r} .3 \\ 91 \end{array}$ | $\begin{array}{r} , 0 \\ 29 \end{array}$ | 1 | $\begin{array}{r} , 2 \\ 81 \end{array}$ | $\begin{array}{r} .3 \\ 47 \end{array}$ | . $376 *$ |
|  |  | ,0 | ,0 | ,2 | ,4 | , 3 | , 1 | ,4 | ,3 | , 0 | , 4 | ,3 | , 0 | ,3 | , 0 | , 0 | , 0 | , 4 |  | ,0 | , 0 | . 029 |
|  |  | 89 | 89 | 20 | 01 | 18 | 42 | 44 | 76 | 20 | 01 | 18 | 50 | 18 | 85 | 50 | 24 | 44 |  | 82 | 41 | ,029 |
|  |  | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| $\begin{aligned} & \text { Soal_ } \\ & 19 \end{aligned}$ | Pearson Correlati on Sig. (1tailed) N | $\begin{array}{r} .4 \\ 22 \end{array}$ | $\begin{aligned} & , 1 \\ & 78 \end{aligned}$ | $\begin{array}{r} 2 \\ 09 \\ \hline \end{array}$ | $\begin{array}{r} , 1 \\ 49 \end{array}$ | $\begin{array}{r} .7 \\ 40 \end{array}$ | $\begin{array}{r} , 0 \\ 93 \end{array}$ | $\begin{array}{r} , 3 \\ 24 \end{array}$ | $\begin{aligned} & , 1 \\ & 78 \end{aligned}$ | $\begin{array}{r} - \\ 2 \\ 19 \end{array}$ | , 0 93 | $\begin{array}{r} 2 \\ 81 \end{array}$ | $\begin{array}{r} , 0 \\ 38 \end{array}$ | $\begin{array}{r} , 0 \\ 20 \end{array}$ | $\begin{array}{r} 2 \\ 81 \end{array}$ | $\begin{array}{r} 2 \\ 09 \end{array}$ | $\begin{aligned} & - \\ & 0 \\ & 10 \end{aligned}$ | $\begin{array}{r} .5 \\ 95 \end{array}$ | $\begin{array}{r} , 2 \\ 81 \end{array}$ | 1 | $\begin{aligned} & , 0 \\ & 52 \end{aligned}$ | .491** |
|  |  | ,0 | ,1 | , 1 | ,2 | ,0 | ,3 | ,0 | ,1 | ,1 | ,3 | ,0 | ,4 | ,4 | ,0 | ,1 | ,4 | , 0 | ,0 |  | ,4 |  |
|  |  | 16 | 92 | 52 | 34 | 00 | 26 | 53 | 92 | 41 | 26 | 82 | 27 | 61 | 82 | 52 | 81 | 01 | 82 |  | 00 | ,005 |
|  |  | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| $\begin{aligned} & \text { Soal_ } \\ & 20 \end{aligned}$ | Pearson Correlati on Sig. (1tailed) N | $\begin{aligned} & , 1 \\ & 82 \end{aligned}$ | $\begin{array}{r} .3 \\ 58 \end{array}$ | $\begin{array}{r} , 1 \\ 23 \end{array}$ | $\begin{array}{r} , 1 \\ 34 \end{array}$ | $\begin{array}{r} 1 \\ 44 \end{array}$ | $\begin{array}{r} , 1 \\ 34 \end{array}$ | $\begin{array}{r} , 0 \\ 23 \end{array}$ | $\begin{array}{r} , 1 \\ 69 \end{array}$ | $\begin{array}{r} , 0 \\ 23 \end{array}$ | $\begin{array}{r} .4 \\ 82 \end{array}$ | , 29 | $\begin{array}{r} , 0 \\ 55 \end{array}$ | $\begin{array}{r} 1 \\ 59 \end{array}$ | $\begin{array}{r} 1 \\ 59 \end{array}$ | $\begin{aligned} & , 0 \\ & 55 \end{aligned}$ | $\begin{array}{r} .4 \\ 70 \end{array}$ | 1 73 | $\begin{array}{r} .3 \\ 47 \end{array}$ | $\begin{aligned} & , 0 \\ & 52 \end{aligned}$ | 1 | . $345 *$ |
|  |  | ,1 | ,0 | ,2 | ,2 | ,2 | ,2 | ,4 | ,2 | ,4 | ,0 | ,4 | ,3 | ,2 | ,2 | ,3 | ,0 | , 1 | ,0 | ,4 |  |  |
|  |  | 86 | 36 | 74 | 57 | 42 | 57 | 56 | 05 | 56 | 06 | 44 | 95 | 19 | 19 | 95 | 08 | 99 | 41 | 00 |  | ,042 |
|  |  | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| Total | Pearson | . 4 | . 4 | . 3 | . 5 | . 5 | . 3 | . 5 | . 3 | . 3 | . 4 | . 3 | . 3 | . 4 | . 4 | . 5 | . 4 | . 4 | . 3 | . 4 | . 3 |  |
|  | Correlati on | 57 | 18 | 83 | 71 | 02 | 47 | 17 | 80 | 45 | 75 | 76 | 63 | 59 | 59 | 20 | 68 | 96 | 76 | 91 | 45 | 1 |
|  | Sig. (1- | ,0 | ,0 | ,0 | ,0 | , 0 | ,0 | ,0 | ,0 | , 0 | ,0 | ,0 | , 0 | ,0 | ,0 | , 0 | ,0 | ,0 | ,0 | ,0 | ,0 |  |
|  | tailed) <br> N | 09 | 17 | 27 | 01 | 04 | 41 | 03 | 28 | 42 | 07 | 29 | 34 | 09 | 09 | 03 | 08 | 05 | 29 | 05 | 42 |  |
|  |  | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |

${ }^{* *}$. Correlation is significant at the 0.01 level ( 1 -tailed).
*. Correlation is significant at the 0.05 level ( 1 -tailed).

Table 4: Validity of Post-test

## POSTEST

## Correlations

|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \hline \text { Soal_ } \\ & 1 \end{aligned}$ | Pearson Correlati on | 1 | $\begin{array}{r} , 1 \\ 69 \end{array}$ | $\begin{aligned} & 1 \\ & 04 \end{aligned}$ | $\begin{array}{r} , 1 \\ 23 \end{array}$ | $\begin{array}{r} .3 \\ 58 \end{array}$ | $\begin{array}{r} 1 \\ 04 \end{array}$ | $\begin{array}{r} , 0 \\ 31 \end{array}$ | $\begin{array}{r} , 1 \\ 95 \end{array}$ | $\begin{array}{r} 0 \\ 66 \end{array}$ | $\begin{aligned} & , 2 \\ & 70 \end{aligned}$ | $\begin{array}{r} , 0 \\ 65 \end{array}$ | $\begin{aligned} & , 0 \\ & 31 \end{aligned}$ | $\begin{array}{r} , 0 \\ 85 \end{array}$ | $\begin{array}{r} , 0 \\ 37 \end{array}$ | $\begin{aligned} & , 0 \\ & 31 \end{aligned}$ | $\begin{array}{r} 1 \\ 95 \end{array}$ | $\begin{array}{r} , 0 \\ 07 \end{array}$ | , 6 | $\begin{array}{r} , 0 \\ 37 \end{array}$ | $\begin{array}{r} .6 \\ 13 \\ 4 \end{array}$ | . $352^{*}$ |
|  | Sig. (1tailed) N | 26 | $\begin{aligned} & , 2 \\ & 05 \\ & 26 \end{aligned}$ | $\begin{array}{r} , 3 \\ 07 \\ 26 \end{array}$ | $\begin{aligned} & , 2 \\ & 75 \\ & 26 \end{aligned}$ | $\begin{aligned} & , 0 \\ & 36 \\ & 26 \end{aligned}$ | $\begin{array}{r} , 3 \\ 07 \\ 26 \end{array}$ | $\begin{array}{r} , 4 \\ 39 \\ 26 \end{array}$ | $\begin{aligned} & , 1 \\ & 70 \\ & 26 \end{aligned}$ | $\begin{aligned} & , 3 \\ & 74 \\ & 26 \end{aligned}$ | $\begin{aligned} & , 0 \\ & 91 \\ & 26 \end{aligned}$ | $\begin{aligned} & , 3 \\ & 76 \\ & 26 \end{aligned}$ | $\begin{array}{r} , 4 \\ 39 \\ 26 \end{array}$ | $\begin{array}{r} , 3 \\ 39 \\ 26 \end{array}$ | $\begin{array}{r} , 4 \\ 29 \\ 26 \end{array}$ | $\begin{aligned} & , 4 \\ & 39 \\ & 26 \end{aligned}$ | $\begin{aligned} & , 1 \\ & 70 \\ & 26 \end{aligned}$ | $\begin{array}{r} , 4 \\ 87 \\ 26 \end{array}$ | $\begin{aligned} & , 3 \\ & 76 \\ & 26 \end{aligned}$ | $\begin{array}{r} , 4 \\ 29 \\ 26 \end{array}$ | $\begin{aligned} & , 0 \\ & 00 \\ & 26 \end{aligned}$ | , 039 26 |
| $\begin{aligned} & \text { Soal_ } \\ & 2 \end{aligned}$ | Pearson Correlati on | $\begin{array}{r} 1 \\ 69 \end{array}$ | 1 | $\begin{array}{r} , 0 \\ 29 \end{array}$ | $\begin{array}{r} .5 \\ 90 \end{array}$ | $\begin{array}{r} , 0 \\ 23 \end{array}$ | $\begin{aligned} & .3 \\ & 47 \end{aligned}$ | $\begin{aligned} & , 0 \\ & 77 \end{aligned}$ | $\begin{array}{r} 1 \\ 05 \end{array}$ | $\begin{array}{r} 2 \\ 22 \\ 2 \end{array}$ | $\begin{aligned} & , 0 \\ & 79 \end{aligned}$ | $\begin{array}{r} .3 \\ 47 \end{array}$ | $\begin{array}{r} 1 \\ 05 \end{array}$ | $\begin{array}{r} , 1 \\ 27 \end{array}$ | $\begin{array}{r} , 0 \\ 55 \end{array}$ | $\begin{array}{r} 1 \\ 05 \end{array}$ | $\begin{array}{r} 1 \\ 05 \end{array}$ | $\begin{array}{r} , 0 \\ 23 \end{array}$ | $\begin{array}{r} - \\ 2 \\ 17 \end{array}$ | $\begin{array}{r} .4 \\ 11 \end{array}$ | $\begin{aligned} & , 0 \\ & 40 \end{aligned}$ | . $340 *$ |
|  | Sig. (1tailed) | $\begin{array}{r} 2 \\ 05 \end{array}$ |  | $\begin{array}{r} , 4 \\ 44 \end{array}$ | , 0 | 4 56 5 | $\begin{array}{r} , 0 \\ 41 \end{array}$ | $\begin{array}{r} , 3 \\ 54 \end{array}$ | , 3 | $\begin{array}{r} , 1 \\ 38 \end{array}$ | , 3 | , 41 | $\begin{array}{r} 3 \\ 05 \end{array}$ | $\begin{array}{r} , 2 \\ 69 \end{array}$ | , 3 | , 3 | $\begin{array}{r} , 3 \\ 05 \end{array}$ | $\begin{array}{r} , 4 \\ 56 \end{array}$ | , 4 | $\begin{aligned} & , 0 \\ & 18 \end{aligned}$ | $\begin{array}{r} , 4 \\ 23 \end{array}$ | ,045 |
|  |  | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |  |  | 26 | 26 | 26 | 26 |
| $\begin{aligned} & \text { Soal_ } \\ & 3 \end{aligned}$ | Pearson Correlati on | 1 04 | , 29 | 1 | , 13 | $\begin{array}{r} , 1 \\ 59 \end{array}$ | $\begin{array}{r} , 0 \\ 97 \end{array}$ | , 40 | $\begin{array}{r} , 0 \\ 40 \end{array}$ | $\begin{array}{r} 1 \\ 78 \end{array}$ | . 4 | , 8 | $\begin{array}{r} , 0 \\ 40 \end{array}$ | $\begin{array}{r} , 2 \\ 28 \end{array}$ | $\begin{array}{r} 3 \\ 29 \\ \hline \end{array}$ | $\begin{array}{r} .3 \\ 91 \end{array}$ | $\begin{array}{r} 2 \\ 16 \end{array}$ | $\begin{aligned} & , 1 \\ & 59 \end{aligned}$ | $\begin{array}{r} 2 \\ 78 \end{array}$ | $\begin{array}{r} , 1 \\ 58 \end{array}$ | ,0 | . $448{ }^{*}$ |

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \& Sig. (1tailed) N \& $$
\begin{array}{r}
, 3 \\
07 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 4 \\
44 \\
26
\end{array}
$$ \& 26 \& $$
\begin{aligned}
& , 4 \\
& 75 \\
& 26
\end{aligned}
$$ \& $$
\begin{array}{r}
, 2 \\
19 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 3 \\
18 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 4 \\
22 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 4 \\
22 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
1 \\
93 \\
96
\end{array}
$$ \& $$
\begin{aligned}
& , 0 \\
& 15 \\
& 26
\end{aligned}
$$ \& $$
\begin{array}{r}
, 3 \\
43 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 4 \\
22 \\
26
\end{array}
$$ \& $$
\begin{aligned}
& 1 \\
& 31 \\
& 26
\end{aligned}
$$ \& $$
\begin{aligned}
& , 0 \\
& 50 \\
& 26
\end{aligned}
$$ \& $$
\begin{aligned}
& , 0 \\
& 24 \\
& 26
\end{aligned}
$$ \& $$
\begin{aligned}
& , 1 \\
& 45 \\
& 26
\end{aligned}
$$ \& $$
\begin{aligned}
& , 2 \\
& 19 \\
& 26
\end{aligned}
$$ \& $$
\begin{array}{r}
, 0 \\
85 \\
26
\end{array}
$$ \& $$
\begin{aligned}
& 2 \\
& 20 \\
& 26
\end{aligned}
$$ \& $$
\begin{gathered}
, 4 \\
01 \\
26
\end{gathered}
$$ \& $$
\begin{array}{r}
, 011 \\
26
\end{array}
$$ <br>
\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 4
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& $$
\begin{array}{r}
, 1 \\
23 \\
, 2 \\
75 \\
26
\end{array}
$$ \& \[
\begin{array}{r}
5 <br>
90 <br>

* <br>
, 0 <br>
01 <br>
26
\end{array}

\] \& \[

$$
\begin{array}{r}
, 0 \\
13 \\
, 4 \\
75 \\
26
\end{array}
$$

\] \& 26 \& \[

$$
\begin{array}{r}
, 2 \\
33 \\
, 1 \\
26 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
77 \\
, 3 \\
55 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
89 \\
, 3 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
01 \\
, 3 \\
12 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
45 \\
, 1 \\
13 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.5 \\
01 \\
\\
, 0 \\
05 \\
05 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
89 \\
, 3 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
30 \\
, 2 \\
64 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
3 \\
50 \\
\\
, 0 \\
40 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
56 \\
, 1 \\
04 \\
26 \\
\hline
\end{array}
$$
\] \& ,

77

3
55

26 \& $$
\begin{array}{r}
, 0 \\
55 \\
\\
, 3 \\
95 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
.3 \\
56 \\
+ \\
, 0 \\
37 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
88 \\
, 1 \\
80 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
61 \\
, 3 \\
84 \\
26
\end{array}
$$
\] \& $.387 *$

, 025
26 <br>

\hline \[
$$
\begin{aligned}
& \text { Soal_ } \\
& 5
\end{aligned}
$$

\] \& | Pearson |
| :--- |
| Correlati on |
| Sig. (1tailed) N | \& \[

$$
\begin{array}{r}
.3 \\
58 \\
, 0 \\
36 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
23 \\
, 4 \\
56 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
59 \\
, 2 \\
19 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
33 \\
, 1 \\
26 \\
26
\end{array}
$$

\] \& 26 \& \[

$$
\begin{array}{r}
.3 \\
47 \\
\star \\
, 0 \\
41 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
77 \\
, 3 \\
54 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
05 \\
, 3 \\
05 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
59 \\
, 1 \\
01 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
27 \\
, 2 \\
69 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
59 \\
, 2 \\
19 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
77 \\
, 3 \\
54 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
79 \\
, 3 \\
50 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
33 \\
, 1 \\
26 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
87 \\
, 0 \\
77 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
05 \\
, 3 \\
05 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
23 \\
, 4 \\
56 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
29 \\
, 4 \\
44 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
33 \\
, 1 \\
26 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
34 \\
, 2 \\
57 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.363^{*} \\
, 034 \\
26
\end{array}
$$
\] <br>

\hline $$
\begin{aligned}
& \hline \text { Soal_ } \\
& 6
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
1 \\
04 \\
, 3 \\
07 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
47 \\
, \\
0 \\
41 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
97 \\
, 3 \\
18 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
47 \\
* \\
, 0 \\
41 \\
26
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
, 1 \\
35 \\
, 2 \\
56 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 1 \\
35 \\
, 2 \\
56 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
78 \\
, 1 \\
93 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
30 \\
, 4 \\
41 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
78 \\
, 0 \\
85 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
22 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
28 \\
, 1 \\
31 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
22 \\
26
\end{array}
$$
\] \& ,

40

4
22

26 \& $$
\begin{array}{r}
.3 \\
47 \\
* \\
, 0 \\
41 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 0 \\
97 \\
, 3 \\
18 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
19 \\
, 1 \\
42 \\
26 \\
\hline
\end{array}
$$
\] \& $.426 *$

, 015
26 <br>

\hline \[
$$
\begin{aligned}
& \text { Soal_ } \\
& 7
\end{aligned}
$$

\] \& | Pearson |
| :--- |
| Correlati |
| on |
| Sig. (1- |
| tailed) N | \& \[

$$
\begin{array}{r}
, 0 \\
31 \\
, 4 \\
39 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
, 0 \\
77 \\
, 3 \\
54 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
22 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
77 \\
, 3 \\
55 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
77 \\
77 \\
, 3 \\
54 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
35 \\
, 2 \\
56 \\
26
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
, 3 \\
20 \\
, 0 \\
55 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 1 \\
38 \\
, 2 \\
51 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
77 \\
, 1 \\
93 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
35 \\
, 2 \\
56 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 3 \\
20 \\
, 0 \\
55 \\
26
\end{array}
$$

\] \& \[

\] \& \[

$$
\begin{array}{r}
, 2 \\
56 \\
, 1 \\
04 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
0 \\
20 \\
, 4 \\
62 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
4 \\
90 \\
9 \\
, 0 \\
06 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
05 \\
, 3 \\
05 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
91 \\
+ \\
, 0 \\
24 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
89 \\
, 3 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
37 \\
, 2 \\
52 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.405 * \\
, 020 \\
26
\end{array}
$$
\] <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 8
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
, 1 \\
95 \\
, 1 \\
70 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
05 \\
, 3 \\
05 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
22 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
89 \\
, 3 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
05 \\
, 3 \\
05 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
35 \\
, 2 \\
56 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 3 \\
20 \\
, 0 \\
55 \\
26
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
1 \\
38 \\
, 2 \\
51 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
1 \\
77 \\
, 1 \\
93 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
91 \\
+ \\
, 0 \\
24 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
20 \\
, 4 \\
62 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
77 \\
, 1 \\
93 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
89 \\
, 3 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.4 \\
90 \\
\hline \\
, 0 \\
06 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
50 \\
, 2 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
77 \\
, 3 \\
54 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
22 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
56 \\
, 1 \\
04 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
99 \\
, 0 \\
69 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.468^{* *} \\
.008 \\
26
\end{array}
$$
\] <br>

\hline \[
$$
\begin{aligned}
& \text { Soal_ } \\
& 9
\end{aligned}
$$

\] \& | Pearson |
| :--- |
| Correlati |
| on |
| Sig. (1- |
| tailed) |
| N | \& \[

$$
\begin{array}{r}
, 0 \\
66 \\
, 3 \\
74 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
22 \\
, 1 \\
38 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
78 \\
, 1 \\
93 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
01 \\
, 3 \\
12 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
59 \\
, 1 \\
01 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
78 \\
, 1 \\
93 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
38 \\
, 2 \\
51 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
38 \\
, 2 \\
51 \\
26 \\
\hline
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
, 2 \\
72 \\
, 0 \\
89 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
.4 \\
09 \\
* \\
, 0 \\
19 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
62 \\
+ \\
, 0 \\
35 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
19 \\
, 4 \\
62 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
01 \\
, 3 \\
12 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
8 \\
86 \\
, 3 \\
38 \\
26 \\
\hline
\end{array}
$$

\] \& \[

\] \& \[

$$
\begin{array}{r}
, 2 \\
22 \\
, 1 \\
38 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
78 \\
, 1 \\
93 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
18 \\
, 2 \\
83 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
47 \\
, 1 \\
12 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.426 * \\
, 015 \\
26
\end{array}
$$
\] <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 10
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
, 2 \\
70 \\
, 0 \\
91 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
79 \\
, 3 \\
50 \\
26
\end{array}
$$

\] \& \[

\] \& \[

$$
\begin{array}{r}
- \\
2 \\
45 \\
, 1 \\
13 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
-1 \\
27 \\
, 2 \\
69 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
30 \\
, 4 \\
41 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
77 \\
, 1 \\
93 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
77 \\
, 1 \\
93 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
72 \\
, 0 \\
89 \\
26 \\
\hline
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
, 1 \\
67 \\
, 2 \\
07 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 0 \\
15 \\
, 4 \\
71 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
33 \\
, 2 \\
58 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
, 2 \\
45 \\
, 1 \\
13 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
15 \\
15 \\
, 4 \\
71 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.5 \\
61 \\
4 \\
, 0 \\
01 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
79 \\
, 3 \\
50 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
28 \\
, 1 \\
31 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.5 \\
05 \\
\forall \\
, 0 \\
04 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
25 \\
, 1 \\
34 \\
26 \\
\hline
\end{array}
$$
\] \& $.392 *$

, 024
26 <br>

\hline $$
\begin{aligned}
& \hline \text { Soal_ } \\
& 11
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
- \\
, 0 \\
65 \\
, 3 \\
76 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
47 \\
+ \\
, 0 \\
41 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
83 \\
, 3 \\
43 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.5 \\
01 \\
. \\
, 0 \\
05 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
59 \\
, 2 \\
19 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
78 \\
, 0 \\
85 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
35 \\
, 2 \\
56 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
91 \\
+ \\
, 0 \\
24 \\
26
\end{array}
$$

\] \& \[

\] \& \[

$$
\begin{array}{r}
, 1 \\
67 \\
, 2 \\
07 \\
26
\end{array}
$$

\] \& 26 \& \[

$$
\begin{array}{r}
, 2 \\
16 \\
, 1 \\
45 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
30 \\
, 4 \\
41 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
16 \\
, 1 \\
45 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
22 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
59 \\
, 2 \\
19 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
83 \\
, 3 \\
43 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
51 \\
, 4 \\
01 \\
26
\end{array}
$$
\] \& $.426 *$

, 015
26 <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 12
\end{aligned}
$$ \& Pearson Correlati on \& \[

$$
\begin{array}{r}
, 0 \\
31
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
05
\end{array}
$$

\] \& \[

$$
\begin{aligned}
& , 0 \\
& 40
\end{aligned}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
89
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
77
\end{array}
$$

\] \& , 40 \& \[

$$
\begin{array}{r}
, 3 \\
20
\end{array}
$$
\] \& -

0

20 \& . 3 \& , 15 \& $$
\begin{array}{r}
, 2 \\
16
\end{array}
$$ \& 1 \& ,

15 \& $$
\begin{aligned}
& .4 \\
& 22
\end{aligned}
$$ \& \[

$$
\begin{array}{r}
1 \\
50
\end{array}
$$

\] \& , 1 \& ${ }_{0}^{1}$ \& \[

$$
\begin{array}{r}
.3 \\
91
\end{array}
$$
\] \& -

7
7 \& , 37 \& . $405^{*}$ <br>
\hline
\end{tabular}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \& Sig. (1tailed) N \& $$
\begin{array}{r}
, 4 \\
39 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
3 \\
05 \\
06
\end{array}
$$ \& $$
\begin{array}{r}
, 4 \\
22 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 3 \\
32 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 3 \\
54 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 4 \\
22 \\
26
\end{array}
$$ \& $$
\begin{aligned}
& , 0 \\
& 55 \\
& 26
\end{aligned}
$$ \& $$
\begin{array}{r}
, 4 \\
62 \\
26
\end{array}
$$ \& , 0
35
26 \& $$
\begin{aligned}
& , 4 \\
& 71 \\
& 26
\end{aligned}
$$ \& $$
\begin{aligned}
& , 1 \\
& 45 \\
& 26
\end{aligned}
$$ \& 26 \& $$
\begin{aligned}
& , 4 \\
& 71 \\
& 26
\end{aligned}
$$ \& $$
\begin{aligned}
& , 0 \\
& 16 \\
& 26
\end{aligned}
$$ \& $$
\begin{aligned}
& \text {, } \\
& 32 \\
& 26
\end{aligned}
$$ \& $$
\begin{aligned}
& , 2 \\
& 32 \\
& 26
\end{aligned}
$$ \& $$
\begin{array}{r}
3 \\
05 \\
26
\end{array}
$$ \& $$
\begin{aligned}
& , 0 \\
& 24 \\
& 26
\end{aligned}
$$ \& $$
\begin{array}{r}
, 3 \\
55 \\
26
\end{array}
$$ \& $$
\begin{aligned}
& , 2 \\
& 52 \\
& 26
\end{aligned}
$$ \& , 020
26 <br>
\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 13
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& $$
\begin{array}{r}
, 0 \\
85 \\
, 3 \\
39 \\
26 \\
\hline
\end{array}
$$ \& $$
\begin{array}{r}
, 1 \\
27 \\
, 2 \\
69 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 2 \\
28 \\
, 1 \\
31 \\
26 \\
\hline
\end{array}
$$ \& $$
\begin{array}{r}
, 1 \\
30 \\
, 2 \\
64 \\
26 \\
\hline
\end{array}
$$ \& $$
\begin{array}{r}
, 0 \\
79 \\
, 3 \\
50 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 2 \\
28 \\
, 1 \\
31 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
.3 \\
69 \\
, \\
32 \\
32 \\
26
\end{array}
$$ \& $$
\begin{array}{r}
, 1 \\
77 \\
, 1 \\
93 \\
26 \\
\hline
\end{array}
$$ \& ,0
19

4
62

26 \& $$
\begin{array}{r}
, 1 \\
33 \\
, 2 \\
58 \\
26 \\
\hline
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 0 \\
30 \\
4 \\
41 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
15 \\
, 4 \\
71 \\
26
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
, 1 \\
30 \\
, 2 \\
64 \\
26 \\
\hline
\end{array}
$$ \& \[

$$
\begin{array}{r}
.3 \\
69 \\
, \\
32 \\
32 \\
26
\end{array}
$$
\] \& 1

77
, 1
93

26 \& $$
\begin{array}{r}
.4 \\
91 \\
\hline \\
0 \\
05 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 2 \\
28 \\
, 1 \\
31 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
30 \\
, 2 \\
64 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
42 \\
, 4 \\
19 \\
26
\end{array}
$$
\] \& $.463 * *$

**
,009

26 <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 14
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
- \\
37 \\
, 0 \\
29 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
95 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 3 \\
29 \\
, 0 \\
50 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
50 \\
+ \\
, 0 \\
40 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
33 \\
, 1 \\
26 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
2 \\
56 \\
, 1 \\
04 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
89 \\
, 3 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
01 \\
, 3 \\
12 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
45 \\
, 1 \\
13 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.4 \\
22 \\
+ \\
, 0 \\
16 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
30 \\
, 2 \\
64 \\
26
\end{array}
$$

\] \& 26 \& \[

$$
\begin{array}{r}
, 2 \\
56 \\
, 1 \\
04 \\
26
\end{array}
$$
\] \& ,

77
, 3
55

26 \& $$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
95 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
38 \\
38 \\
, 2 \\
51 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
61 \\
, 3 \\
84 \\
26
\end{array}
$$
\] \& $.408^{*}$

.019
26 <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 15
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
, 0 \\
31 \\
, 4 \\
39 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
05 \\
, 3 \\
05 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
91 \\
, \\
24 \\
26 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
56 \\
, 1 \\
04 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
87 \\
, 0 \\
77 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
22 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
20 \\
, 4 \\
62 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.4 \\
90 \\
* \\
0 \\
0 \\
06 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
86 \\
, 3 \\
38 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
15 \\
, 4 \\
71 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
16 \\
, 1 \\
45 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
50 \\
, 2 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
69 \\
+ \\
, 0 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
56 \\
, 1 \\
04 \\
26
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
, 1 \\
90 \\
, 1 \\
77 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 1 \\
05 \\
, 3 \\
05 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
16 \\
, 1 \\
45 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
89 \\
, 3 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
37 \\
, 2 \\
52 \\
26
\end{array}
$$
\] \& $.468 * *$

, 008
26 <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 16
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
, 1 \\
95 \\
, 1 \\
70 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
05 \\
, 3 \\
05 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
16 \\
, 1 \\
45 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
, 0 \\
77 \\
, 3 \\
55 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
05 \\
, 3 \\
05 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
22 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.4 \\
90 \\
, \\
0 \\
06 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
50 \\
, 2 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
62
\end{array}
$$
\]

$$
\begin{array}{r}
, 0 \\
35
\end{array}
$$

$$
26
$$ \& \[

$$
\begin{aligned}
& .5 \\
& 61 \\
& , 0 \\
& 01 \\
& 26
\end{aligned}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
22 \\
26
\end{array}
$$
\] \& 1

50
, 2
32

26 \& $$
\begin{array}{r}
, 1 \\
77 \\
, 1 \\
93 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 0 \\
77 \\
, 3 \\
55 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
90 \\
, 1 \\
77 \\
26
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
1 \\
05 \\
, 3 \\
05 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 2 \\
16 \\
, 1 \\
45 \\
26
\end{array}
$$

\] \& \[

\] \& \[

$$
\begin{array}{r}
, 0 \\
25 \\
, 4 \\
52 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.468 * \\
.008 \\
26
\end{array}
$$
\] <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 17
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
, 0 \\
07 \\
, 4 \\
87 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
23 \\
, 4 \\
56 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
59 \\
, 2 \\
19 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{|r}
, 0 \\
55 \\
, 3 \\
95 \\
96 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
23 \\
, 4 \\
56 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
47 \\
+ \\
, 0 \\
41 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
05 \\
, 3 \\
05 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
77 \\
, 3 \\
54 \\
26
\end{array}
$$
\] \& 2

22
, 1
38

26 \& $$
\begin{array}{r}
, 0 \\
79 \\
, 3 \\
50 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 1 \\
59 \\
, 2 \\
19 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
05 \\
, 3 \\
05 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
4 \\
91 \\
+ \\
, 0 \\
05 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
95 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
05 \\
, 3 \\
05 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
05 \\
, 3 \\
05 \\
26 \\
\hline
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
.3 \\
47 \\
* \\
, 0 \\
41 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
95 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 3 \\
08 \\
, 0 \\
63 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.430 * \\
.014 \\
26
\end{array}
$$
\] <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 18
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
- \\
, 0 \\
65 \\
, 3 \\
76 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
2 \\
17 \\
, 1 \\
44 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
78 \\
, 0 \\
85 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
.3 \\
56 \\
, 0 \\
37 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
29 \\
, 4 \\
44 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
97 \\
, 3 \\
18 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
91 \\
, \\
0 \\
24 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
22 \\
26
\end{array}
$$
\] \& 1

78

1
93

26 \& $$
\begin{array}{r}
, 2 \\
28 \\
, 1 \\
31 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 0 \\
83 \\
, 3 \\
43 \\
26
\end{array}
$$
\] \& .3

91

0
0
24

26 \& $$
\begin{array}{r}
, 2 \\
28 \\
, 1 \\
31 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
16 \\
, 1 \\
45 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
16 \\
, 1 \\
45 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.3 \\
47 \\
\\
, 0 \\
41 \\
26
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 0 \\
51 \\
, 4 \\
01 \\
26
\end{array}
$$
\] \& $.383 *$

, 027
26 <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 19
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
, 0 \\
37 \\
, 4 \\
29 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.4 \\
11 \\
\\
, 0 \\
18 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
88 \\
, 1 \\
80 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
33 \\
, 1 \\
26 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
89 \\
, 3 \\
32 \\
26
\end{array}
$$
\] \& 2

56
, 1
04
26 \& 1
18
2
23
83

26 \& $$
\begin{array}{r}
.5 \\
05 \\
, 0 \\
04 \\
04 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$
\] \& , 0

77
, 3
55

26 \& $$
\begin{array}{r}
, 1 \\
30 \\
, 2 \\
64 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
1 \\
38 \\
, 2 \\
51 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
89 \\
, 3 \\
32 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
.4 \\
22 \\
\star \\
, 0 \\
16 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
55 \\
, 3 \\
95 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
58 \\
, 2 \\
20 \\
26
\end{array}
$$
\] \& 1

26 \& $$
\begin{array}{r}
, 0 \\
98 \\
, 3 \\
18 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
.428 * \\
.015 \\
26
\end{array}
$$
\] <br>

\hline $$
\begin{aligned}
& \text { Soal_ } \\
& 20
\end{aligned}
$$ \& Pearson Correlati on Sig. (1tailed) N \& \[

$$
\begin{array}{r}
6 \\
13 \\
\hline \\
0 \\
00 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
40 \\
, 4 \\
23 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
51 \\
, 4 \\
01 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 0 \\
61 \\
, 3 \\
84 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
34 \\
, 2 \\
57 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 2 \\
19 \\
, 1 \\
42 \\
26 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
, 1 \\
37 \\
, 2 \\
52 \\
26
\end{array}
$$
\] \& ,2

99

0
69
26 \& 2
47
, 1
12

26 \& $$
\begin{array}{r}
, 2 \\
25 \\
, 1 \\
34 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 0 \\
51 \\
, 4 \\
01 \\
26
\end{array}
$$
\] \& 1

37
, 2
52

26 \& $$
\begin{array}{r}
, 0 \\
42 \\
, 4 \\
19 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 0 \\
61 \\
, 3 \\
84 \\
26
\end{array}
$$
\] \& , 1

37
, 2
52
26 \& , 0
25
, 4
52

26 \& $$
\begin{array}{r}
, 3 \\
08 \\
, 0 \\
63 \\
26
\end{array}
$$ \& \[

$$
\begin{array}{r}
, 0 \\
51 \\
, 4 \\
01 \\
26
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
- \\
, 0 \\
98 \\
, 3 \\
18 \\
26
\end{array}
$$
\] \& 26 \& $.441^{*}$

.012
26 <br>
\hline
\end{tabular}


${ }^{* *}$. Correlation is significant at the 0.01 level ( 1 -tailed).
*. Correlation is significant at the 0.05 level ( 1 -tailed).
b. Reliability of the pre-test
a) The analysis reliability of pre-test with manual

In this research, the researcher used K-R 21 for the reliability of the instruments because of it was accordance with the number of questions that would be given, namely 40 questions and including even. K-R 21 is used for items on the instrument are scored as true of false as categorical scores, responses are not affected by speed, and items measure common factors.

This formula of Kuder Richardson that would be uses in this research, a follow. ${ }^{3}$

Note:

$$
\mathrm{r}_{11}=\left(\frac{k}{k-1}\right)\left(1-\frac{M(k-M)}{k v_{t}}\right)
$$

$\mathrm{r}_{11}=$ Instrument reliability

K = Number of the items on the test
$\mathrm{M} / \mathrm{Mt}=$ Means score
$\mathrm{V}_{\mathrm{t}}=$ Total variances

[^2]Then in this research, the researcher took the result of the calculation of $\mathrm{r}_{11}$ compared with $\mathrm{r}_{\text {table }}$ product moment of $5 \%$ significance. If it is known that $\mathrm{r}_{11}$ is greater than $\mathrm{r}_{\text {table }}$, so it's reliable. Then, there are several steps in analyzing the data obtained from the study (pre-test and post-test) are as follows:

1) Firstly, create a table containing the number of students as a sample. Then, enter a student's grade for each item from questions 1-20. After that the total score of each students $(\mathrm{X} / \mathrm{Xt})$. Then, enter the sum of the scores of each students squared $\left(\mathrm{Xt}^{2}\right)$.

Table 5: Each Item of Pre-test Score

| No | Score Of Each Item |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Xt | $\mathrm{Xt}^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |  |  |
| 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 15 | 225 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 5 | 25 |
| 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 25 |
| 4 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 10 | 100 |
| 5 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 8 | 64 |
| 6 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 16 | 256 |
| 7 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 8 | 64 |
| 8 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 11 | 121 |
| 9 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 18 | 324 |
| 10 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 15 | 225 |
| 11 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 17 | 289 |


| 12 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 9 | 81 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 13 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 10 | 100 |
| 14 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 19 | 361 |
| 15 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 9 | 81 |
| 16 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 18 | 324 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 | 144 |
| 18 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 15 | 225 |
| 19 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 196 |
| 20 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 13 | 169 |
| 21 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 19 | 361 |
| 22 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 13 | 169 |
| 23 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 16 | 256 |
| 24 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 15 | 225 |
| 25 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 16 | 256 |
| 26 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 16 | 256 |
| $\Sigma$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 342 | 4922 |

2) Secondly, find the mean of the total score by calculating using the following formula:
$M=\sum X$

N
$=342$

26
$=13,153$
3) Thirdly, find the total variance by calculating from the pre-test score using the following formula.

$$
\begin{aligned}
\mathrm{Vt} & =\frac{\sum \mathrm{Xt}^{2}-\left(\frac{\left.\sum \mathrm{Xt}\right)^{2}}{\mathrm{n}}\right.}{\mathrm{n}} \\
& =\frac{4922-\frac{(342)^{2}}{26}}{26} \\
& =\frac{4922-\frac{116,964}{26}}{26} \\
& =\frac{4922-4498,61}{26} \\
& =423,39 \\
& =16,284
\end{aligned}
$$

4) Then, calculate using the following formula $\mathrm{K}-\mathrm{R} 21$ :

$$
\begin{aligned}
\mathrm{R}_{11} & =\left(\frac{k}{k-1}\right)\left(1-\frac{M(k-M)}{k v_{t}}\right) \\
& =\left(\frac{20}{20-1}\right)\left(1-\frac{13,153(20-13,153)}{20 \cdot(16,284)}\right) \\
& =\left(\frac{20}{19}\right)\left(1-\frac{13,153(6,847)}{20 \cdot(16,284)}\right) \\
& =1,052\left(1-\frac{90,058}{325,68}\right)
\end{aligned}
$$

$$
\begin{aligned}
& =1,052(1-0,276) \\
& =1,052(0,724) \\
& =0,774
\end{aligned}
$$

The following is a table of product moment correlation coefficient "

| Df (Degree of freedom) | Critical value "r" or significant level |
| :---: | :---: |
|  |  |
| 25 | $5 \%$ |

Based on the product moment correlation coefficient table "r" above, we can see if $\mathrm{r}_{11}=0,774$ which means that the pre-test value is higher than the $\mathrm{r}_{\text {table }}$ value. This means that the pre-test is reliable.
a) The analysis of reliability of pre-test with SPSS

## Reliability Statistics

| Cronbach's <br> Alpha | N of <br> Items |
| ---: | ---: |
| , 774 | 20 |

Table 6: Each Item of Pre-test Score

| X | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Xt | $\mathbf{X t}{ }^{\mathbf{2}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 15 | 225 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 5 | 25 |
| 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 25 |
| 4 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 10 | 100 |
| 5 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 8 | 64 |
| 6 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 16 | 256 |
| 7 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 8 | 64 |
| 8 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 11 | 121 |
| 9 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 18 | 324 |
| 10 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 15 | 225 |
| 11 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 17 | 289 |
| 12 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 9 | 81 |
| 13 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 10 | 100 |
| 14 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 19 | 361 |
| 15 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 9 | 81 |
| 16 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 18 | 324 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 | 144 |
| 18 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 15 | 225 |
| 19 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 196 |
| 20 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 13 | 169 |
| 21 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 19 | 361 |
| 22 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 13 | 169 |
| 23 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 16 | 256 |
| 24 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 15 | 225 |
| 25 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 16 | 256 |
| 26 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 16 | 256 |
| $\sum^{x}$ | 15 | 15 | 16 | 14 | 21 | 12 | 19 | 15 | 19 | 14 | 18 | 16 | 18 | 18 | 16 | 17 | 19 | 18 | 23 | 19 | 342 | 4922 |
| $L^{\sum^{x^{2}}}$ | 15 | 15 | 16 | 14 | 21 | 12 | 19 | 15 | 19 | 14 | 18 | 16 | 18 | 18 | 16 | 17 | 19 | 18 | 23 | 19 |  |  |


c. Reliability of post-test
a) The analysis reliability of post-test with manual

1) Firstly, create a table containing the number of students as a sample.

Then, enter a student's grade for each item from questions 1-20.
After that the total score of each students (X/Xt). Then, enter the sum of the scores of each students squared $\left(\mathrm{Xt}^{2}\right)$.

Table 7: Each Item of Post-test

| NO | Score of Each Item |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Xt | $\mathbf{X t}{ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |  |  |
| 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 17 | 289 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 6 | 36 |
| 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 18 | 324 |
| 4 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 49 |
| 5 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 12 | 144 |
| 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20 | 400 |
| 7 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 7 | 49 |
| 8 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 13 | 169 |


| 9 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 13 | 169 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 15 | 225 |
| 11 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 12 | 144 |
| 12 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 14 | 196 |
| 13 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 11 | 121 |
| 14 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20 | 400 |
| 15 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 12 | 144 |
| 16 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 15 | 225 |
| 17 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 15 | 225 |
| 18 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 14 | 196 |
| 19 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 16 | 256 |
| 20 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 15 | 225 |
| 21 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 18 | 324 |
| 22 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 7 | 49 |
| 23 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 10 | 100 |
| 24 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 14 | 196 |
| 25 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 14 | 196 |
| 26 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 18 | 324 |
| $\Sigma$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 353 | 5175 |

2) Secondly, find the mean of the total score by calculating using the following formula:
$=\underline{\sum}$
N

$$
\begin{aligned}
& =\frac{353}{26} \\
& =13,576
\end{aligned}
$$

3) Thirdly, find the total variance by calculating from the post-test score using the following formula:

$$
\begin{aligned}
\mathrm{Vt} & =\frac{\sum \mathrm{Xt}^{2}-\frac{\left(\sum \mathrm{Xt}\right)^{2}}{\mathrm{n}}}{\mathrm{n}} \\
& =\frac{5175-\frac{(353)^{2}}{26}}{26} \\
& =\frac{5175-\frac{124609}{26}}{26} \\
= & \frac{5175-4792,65}{26} \\
& =\frac{382,35}{26} \\
& =14,705
\end{aligned}
$$

4) Fourthly, Then calculate using the following formula K-R 21 :

$$
\begin{aligned}
\mathrm{R}_{11} & =\left(\frac{k}{k-1}\right)\left(1-\frac{M(k-M)}{k v_{t}}\right) \\
& =\left(\frac{20}{20-1}\right)\left(1-\frac{13,576(20-13,576)}{20.14,705}\right) \\
& =\left(\frac{20}{19}\right)\left(1-\frac{13,576(6,424)}{20.14,705}\right) \\
& =1.052\left(1-\frac{87,212}{294,6}\right) \\
& =1.052(1-0,296)
\end{aligned}
$$

$$
\begin{aligned}
& =1.052(0,74) \\
& =0,748
\end{aligned}
$$

The following is a table of product moment correlation coefficient " $r$ "

| Df (Degree of Freedom) | Critical Value 'r'' or Significant Level |
| :---: | :---: |
| 25 | $5 \%$ |
|  | 0,396 |

Based on the product moment correlation coefficient table "r"
above, we can see if $\mathrm{r}_{11}=0,748$ which means that the post-test value is
higher than the $\mathrm{r}_{\text {table }}$ value. This means that the post-test is reliable.
b) The analysis reliability of post-test with SPSS

## Reliability Statistics

| Cronbach's <br> Alpha | N of <br> Items |
| ---: | ---: |
| , 748 | 20 |

Table 8: Each Item of Post-test

| $\mathbf{N o}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ | $\mathbf{1 1}$ | $\mathbf{1 2}$ | $\mathbf{1 3}$ | $\mathbf{1 4}$ | $\mathbf{1 5}$ | $\mathbf{1 6}$ | $\mathbf{1 7}$ | $\mathbf{1 8}$ | $\mathbf{1 9}$ | $\mathbf{2 0}$ | $\mathbf{X t}$ | $\mathbf{X t}^{\mathbf{2}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 17 | 289 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 6 | 36 |
| 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 18 | 324 |
| 4 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 49 |
| 5 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 12 | 144 |
| 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20 | 400 |
| 7 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 7 | 49 |
| 8 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 13 | 169 |


| 9 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 13 | 169 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 15 | 225 |
| 11 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 12 | 144 |
| 12 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 14 | 196 |
| 13 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 11 | 121 |
| 14 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20 | 400 |
| 15 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 12 | 144 |
| 16 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 15 | 225 |
| 17 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 15 | 225 |
| 18 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 14 | 196 |
| 19 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 16 | 256 |
| 20 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 15 | 225 |
| 21 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 18 | 324 |
| 22 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 7 | 49 |
| 23 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 10 | 100 |
| 24 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 14 | 196 |
| 25 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 14 | 196 |
| 26 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 18 | 324 |
| $\sum^{\sum x}$ | 15 | 19 | 18 | 16 | 19 | 18 | 17 | 17 | 22 | 20 | 18 | 17 | 20 | 16 | 17 | 17 | 19 | 18 | 16 | 14 | 353 | 5175 |
|  | 15 | 19 | 18 | 16 | 19 | 18 | 17 | 17 | 22 | 20 | 18 | 17 | 20 | 16 | 17 | 17 | 19 | 18 | 16 | 14 |  |  |
| N | 26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Varians | 0,24 | 0,20 | 0,21 | 0,24 | 0,20 | 0,21 | 0,23 | 0,23 | 0,13 | 0,18 | 0,21 | 0,23 | 0,18 | 0,24 | 0,23 | 0,23 | 0,20 | 0,21 | 0,24 | 0,25 |  |  |
|  | 4,26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vt | 14,7056213 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{gathered} \mathrm{n} \\ \text { Soal } \end{gathered}$ | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| r11 | 0,748 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## d. Normality Test

The normality test was conducted to determine whether the
sample used in this research was normally or not normally distributed
and to determine the formula to be used in data analysis. If the test is normally distributed, it uses the $t$-test formula, while if it not normally distributed, it uses the Wilcoxon test formula. It can be seen if the significance value $(\mathrm{Sig})>0,05$ then the distribution is normal, if the significance value $(\mathrm{Sig})<0,05$ then the distribution is not normal. To test the normality of the data in this research, the researcher used SPSS as follows:

Tabel 9: Tests of Normality

|  | Kolmogorov-Smirnov $^{\mathrm{a}}$ |  |  | Shapiro-Wilk |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | Statistic | df | Sig. | Statistic | df | Sig. |  |
| Pretest | , 173 | 26 | , 044 | , 940 | 26 | , 134 |  |
| Postest | , 120 | 26 | $.200^{*}$ | , 949 | 26 | , 223 |  |

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

So based on the table above, the normality test is normally distributed, because $\mathrm{L}_{\text {hitung }}>\mathrm{L}_{\text {table }}$. And the formula used in the data analysis is the formula using t-test.

## 7. Data analysis

In quantitative data analysis data, we must first test the normality test to find out what formula we will use. If the normality test is normally distributed, then use the t-test formula. If the distribution is not normal then the use Wilcoxon test formula.

After the researcher finished applying by giving treatment to class X IPA 1 students and getting a score of their pre-test and post-test, then the next researcher will analyze the data of this study by using the $t$-test formula because normality test is normally distributed. And following are the steps to calculate t -test formula score:
a. Firstly, the researcher made a table containing the pre-test and post-test scores obtained by students and then determined the difference (D) of the two, namely by reducing pre-test and post-test scores obtained by students. Ad will be explained in the table below:

Table 10: Differences in Students Score of Pre-test and Post-test

| NO | PRE-TEST | POST-TEST | D |
| :---: | :---: | :---: | :---: |
| 1 | 15 | 17 | 2 |
| 2 | 5 | 6 | 1 |
| 3 | 5 | 18 | 13 |
| 4 | 10 | 7 | 3 |
| 5 | 8 | 12 | 4 |
| 6 | 16 | 20 | 4 |
| 7 | 8 | 7 | 1 |
| 8 | 11 | 13 | 2 |
| 9 | 18 | 13 | 5 |
| 10 | 15 | 15 | 0 |
| 11 | 17 | 12 | 5 |
| 12 | 9 | 14 | 5 |
| 13 | 10 | 11 | 1 |
| 14 | 19 | 20 | 1 |
| 15 | 9 | 12 | 3 |
| 16 | 18 | 15 | 3 |
| 17 | 12 | 15 | 3 |


| 18 | 15 | 14 | 1 |
| :---: | :---: | :---: | :---: |
| 19 | 14 | 16 | 2 |
| 20 | 13 | 15 | 2 |
| 21 | 19 | 18 | 1 |
| 22 | 13 | 7 | 6 |
| 23 | 16 | 10 | 6 |
| 24 | 15 | 14 | 1 |
| 25 | 16 | 14 | 2 |
| 26 | 16 | 18 | 2 |
| $\sum$ | $\mathbf{3 4 2}$ | $\mathbf{3 5 3}$ | $\mathbf{7 9}$ |

So, based on the table above, the result of the students' pre-test are 342 and the result of the students' post-test is 353 . So it can be concluded that the posy-test score is higher that pre-test scores.
b. Secondly, find Md (Mean Difference) of pre-test and pos-test by calculating using the following formula:
$\mathrm{M}=\frac{\sum \mathrm{D}}{\mathrm{N}}$

$$
=79
$$

26

$$
=3,038
$$

c. Thirdly, find the deviation of each subject ( Xd ) using the formula $\mathrm{Xd}=$ $\mathrm{D}-\mathrm{Md}$. Below is a table of the results of calculating in finding the value of Xd.

Table 11: Score of Deviation of Each Subject (Xd)

| NO | $\mathbf{D}$ | $\mathbf{X d}$ |
| :---: | :---: | :---: |
| 1 | 2 | $-1,038$ |


| 2 | 1 | -2,038 |
| :---: | :---: | :---: |
| 3 | 13 | 9,962 |
| 4 | 3 | -0,038 |
| 5 | 4 | 0,962 |
| 6 | 4 | 0,962 |
| 7 | 1 | -2,038 |
| 8 | 2 | -1,038 |
| 9 | 5 | 1,962 |
| 10 | 0 | -3,038 |
| 11 | 5 | 1,962 |
| 12 | 5 | 1,962 |
| 13 | 1 | -2,038 |
| 14 | 1 | -2,038 |
| 15 | 3 | -0,038 |
| 16 | 3 | -0,038 |
| 17 | 3 | -0,038 |
| 18 | 1 | -2,038 |
| 19 | 2 | -1,038 |
| 20 | 2 | -1,038 |
| 21 | 1 | -2,038 |
| 22 | 6 | 2,962 |
| 23 | 6 | 2,962 |
| 24 | 1 | -2,038 |
| 25 | 2 | -1,038 |
| 26 | 2 | -1,038 |
| $\sum \mathbf{M d}=\mathbf{3 , 0 3 8}$ |  | $\sum \mathbf{X d}=\mathbf{0 , 0 1 2}$ |

d. Fourthly, the next step is to calculate the sum of the squared scores that have been obtained from Xd and then add up the score to get the $\sum \mathrm{X}^{2} \mathrm{~d}$ (the sum of quadrate deviation ) value.

Table 12: Score of the sum of quadrate deviation

| NO | Xd | Xd ${ }^{2}$ |
| :---: | :---: | :---: |
| 1 | -1,038 | 1,077 |
| 2 | -2,038 | 4,153 |
| 3 | 9,962 | 99,241 |
| 4 | -0,038 | 0,001 |
| 5 | 0,962 | 0,925 |
| 6 | 0,962 | 0,925 |
| 7 | -2,038 | 4,153 |
| 8 | -1,038 | 1,077 |
| 9 | 1,962 | 3,849 |
| 10 | -3,038 | 9,229 |
| 11 | 1,962 | 3,849 |
| 12 | 1,962 | 3,849 |
| 13 | -2,038 | 4,153 |
| 14 | -2,038 | 4,153 |
| 15 | -0,038 | 0,001 |
| 16 | -0,038 | 0,001 |
| 17 | -0,038 | 0,001 |
| 18 | -2,038 | 4,153 |
| 19 | -1,038 | 1,077 |
| 20 | -1,038 | 1,077 |
| 21 | -2,038 | 4,153 |
| 22 | 2,962 | 8,773 |
| 23 | 2,962 | 8,773 |
| 24 | -2,038 | 4,153 |
| 25 | -1,038 | 1,077 |
| 26 | -1,038 | 1,077 |
| $\sum \mathrm{Xd}=\mathbf{0 , 0 1 2}$ |  | $\sum \mathrm{Xd}^{\mathbf{2}}=\mathbf{1 7 4 , 9 5}$ |

e. Fifthly, then enter and calculate all the score results that have been obtained to be dependent on the t -test formula:

Table 13: Table of Coefficient t-test

| NO | PRE-TEST | POST-TEST | D | Xd | Xd ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 15 | 17 | 2 | -1,038 | 1,077 |
| 2 | 5 | 6 | 1 | -2,038 | 4,153 |
| 3 | 5 | 18 | 13 | 9,962 | 99,241 |
| 4 | 10 | 7 | 3 | -0,038 | 0,001 |
| 5 | 8 | 12 | 4 | 0,962 | 0,925 |
| 6 | 16 | 20 | 4 | 0,962 | 0,925 |
| 7 | 8 | 7 | 1 | -2,038 | 4,153 |
| 8 | 11 | 13 | 2 | -1,038 | 1,077 |
| 9 | 18 | 13 | 5 | 1,962 | 3,849 |
| 10 | 15 | 15 | 0 | -3,038 | 9,229 |
| 11 | 17 | 12 | 5 | 1,962 | 3,849 |
| 12 | 9 | 14 | 5 | 1,962 | 3,849 |
| 13 | 10 | 11 | 1 | -2,038 | 4,153 |
| 14 | 19 | 20 | 1 | -2,038 | 4,153 |
| 15 | 9 | 12 | 3 | -0,038 | 0,001 |
| 16 | 18 | 15 | 3 | -0,038 | 0,001 |
| 17 | 12 | 15 | 3 | -0,038 | 0,001 |
| 18 | 15 | 14 | 1 | -2,038 | 4,153 |
| 19 | 14 | 16 | 2 | -1,038 | 1,077 |
| 20 | 13 | 15 | 2 | -1,038 | 1,077 |
| 21 | 19 | 18 | 1 | -2,038 | 4,153 |
| 22 | 13 | 7 | 6 | 2,962 | 8,773 |
| 23 | 16 | 10 | 6 | 2,962 | 8,773 |
| 24 | 15 | 14 | 1 | -2,038 | 4,153 |
| 25 | 16 | 14 | 2 | -1,038 | 1,077 |


| 26 | 16 | 18 | 2 | $-1,038$ | 1,077 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\sum$ | $\mathbf{3 4 2}$ | $\mathbf{3 5 3}$ | $\mathbf{7 9}$ | $\mathbf{0 , 0 1 2}$ | $\mathbf{1 7 4 , 9 5}$ |

$$
\begin{aligned}
\mathrm{t} & =\frac{M d}{\sqrt{\frac{\sum x^{2} d}{N(N-1)}}} \\
& =\frac{3,038}{\sqrt{\frac{174,95}{26(26-1)}}} \\
& =\frac{3,038}{\sqrt{\frac{174,95}{26(25)}}} \\
& =\frac{3,038}{\sqrt{\frac{174,95}{650}}} \\
& =\frac{3,038}{\sqrt{0,269}} \\
& =\frac{3,038}{0,518} \\
& =5,864
\end{aligned}
$$

So, after adding up all based on the above calculations on the t -test dependent on the results students' reading comprehension on the pre-test and post-test, it shows that the t -value is 5,864 . And regarding the interpretation of this value further will explained in the next discussion.

## B. Hypothesis Testing

In this research, this hypothesis testing aims to determine whether Ha (Alternative Hypothesis) rejected or accepted. So in this research where the researcher using a significance level of $5 \%$. That is, if the $t$ value is higher than
the t table value or has the same value, it means that Ha (Alternative Hypothesis) is accepted and Ho (Null Hypothesis) is rejected. However, if the value obtained by $t$ arithmetic is lower than the value of $t$ table, it means that Ho (Null Hypothesis) is accepted and Ha (Alternative Hypothesis) is rejected. In the calculation of the previous explanation, we can already know value of $\mathrm{t}_{0}$.

Then, the researcher determines its df (degrees of freedom). After that, the formula for df is $\mathrm{df}=\mathrm{N}-1$, with N as the number of respondents or subjects, and the sample taken by the researcher in terms of this study consisted of 26 students. So, for df (degrees of freedom) of this research is $\mathrm{df}=26-1=25$. The next step, after knowing the df of this study, then look at the value of $t$ on $5 \%$ significance level. We can see this in the table below as follows:

Critical Value of t-test

| df (degree of <br> freedom) | Critical Value of $\mathbf{t}$-Test on Significance Level |
| :---: | :---: |
|  | $5 \%$ |
| 25 | 2,06 |

After we know the value of $t_{0}$ which is 5,864 , then we then compare it with the value contained in the $t_{t}(t$ table $)$. And the value of the $t_{t}(t$ table $)$ that has been contained above is 2,06 . So in this research, the researcher concludes that if the Ha (Alternative Hypothesis) is accepted because $t_{0}>t_{t}$ (t table) or (5,864 > 2,06) while the Ho (Null Hypothesis) is rejected.

Then with statement above, it can be said that the Ha (Alternative Hypothesis) is certain accept that Classwide Peer Tutoring Strategy can be effective towards reading comprehension in students. Then, students are taught using a Classwide Peer Tutoring Strategy can better their reading
comprehension in the tenth grade at Senior High School 1 Galis. And the significance level is $5 \% \mathrm{t}_{0}>\mathrm{t}_{\mathrm{t}}(\mathrm{t}$ table $)$ namely $(5,864>2,06)$ so that the researcher can conclude that the Ha (Alternative Hypothesis) is accepted and the Ho (Null Hypothesis) is rejected.

## C. Discussion

In discussing the problem of study in the first chapter, the researcher has carried out a research process from tests namely (pre-test and post-test) and documentation. And presenting research result based on findings in this research area. And a review of related theories and data analysis to clarify a finding.

In this research, the researcher will use a quantitative approach because the data to be studied in this research are in the form of numerical data and statistical procedures. Because the researcher wants to measure the effectiveness of one variable that is manipulated by another variable, the researcher will use a pre-experimental design, namely one group pre-test and post-test design.

This research has two problem of study, namely: 1. Do the students who are thought by Classwide Peer Tutoring strategy have better achievement in their reading comprehension than those who are not? 2. How significance is the difference before and after using Classwide Peer Tutoring strategy towards students' reading comprehension of the tenth grade at Senior High School 1 Galis? And the next step is to find out the results obtained in the research, namely the researcher formulates the research problem from the research that will be carried out discussed below as follows:

## 1. The students who are thought by Classwide Peer Tutoring strategy have better achievement in their reading comprehension than those who are not.

In this research, the researcher discussed whether students who were taught using Classwide Peer Tutoring strategy would be better at their reading comprehension. And on discovery this research uses tests namely (pre-test and post-test) and documentation. And before the researcher applied a Classwide Peer Tutoring strategy to the students of class X IPA 1, so the researcher gave a pre-test to the students first. Then, after the researcher applied or gave treatment to the students for two treatments, then the researcher give post-test to students. After that, the researcher saw the difference in students scores obtained from the pre-test scores (before the researcher applied the Classwide Peer Tutoring strategy) and the post-test (after the researcher applied the Classwide Peer Tutoring strategy).

Next, before the researcher applied the first treatment, the researcher gave a pre-test first to the students on Thursday, September 22, 2022 at 08.25 WIB. Then at the first meeting on Thursday, September 29, 2022 at 08.25 WIB, the researcher taught in class X IPA 1 by giving treatment using Classwide Peer Tutoring strategy on narrative text. And for the second meeting on Thursday, October 6, 2022 at 08.25 WIB, the treatment is different from the first treatment, because the researcher gave quizzes to students to answer questions about narrative texts in folk legends, for students who can answer the quiz correctly, they will get one star from the researcher. After the researcher gave the final treatment to the students, the researcher gave a post-test.

Classwide Peer Tutoring is a strategy to assist teachers in the learning process in the classroom, where students are formed into several groups, some of which are tutors and tutees in delivering learning materials. This strategy can make students more active in class and interact with each other. With this strategy, it can help students in reading comprehension to be better. According to Greenwood in DuPaul et al, the implementation of Classwide Peer Tutoring is as follows: ${ }^{1}$
a. Groupping

1) All students in the class are divided into two groups.
2) Installed as a tutor and tutee sits next to each other.
3) The tutor is equipped with a text containing academic material in accordance with the content to be taught.
b. Explanation
4) The tutor teaches part of the text to the tutee within a certain time.
5) Tutee respond that has verbally to the part being taught.
6) The tutor calculates points based on the correct answer given by the tutee.
c. Substitution
7) Both can switch roles when the set time is up.
8) In the tutoring session, the teacher records the points earned by each students.
[^3]
## d. Achievements

1) The teacher adds up all the points obtained by each group.
2) The team with the most points will announced as the winner and given an award from another group.
e. Evaluation
3) The teacher provides an evaluation of the material that has been taught. ${ }^{2}$

In the statement above, because the researcher is in the process of applying a Classwide Peer Tutoring strategy to students who have followed this implementation, so that the process of implementing this strategy can run well and this research is accepted and in accordance with the theory contained in Chapter II. Then, it can be said that the Classwide Peer Tutoring strategy can make students' reading comprehension better than before.

Then, in this study the researcher took a sample of 26 students who would be investigated using the test as an instrument. In this research, the researcher used the t -test to analyze the data. In obtaining the data, the researcher also used two data for testing, namely by using pre-test and posttest. And the value of $t$ that has been obtained by the researcher is by using the $t$-test formula is 5,864 . So, that the value obtained is 5,864 , which is a proven value of the effectiveness of the treatment that has been given by researcher to students as a the research sample on their reading comprehension. It means that the value obtained is 5,864 is value of the degree of effectiveness of the treatment in applying a Classwide Peer

[^4]Tutoring strategy towards students' reading comprehension in the tenth grade at Senior High School 1 Galis

The main purpose of this research is that researcher want to know the results of treatment that will be given by researcher to the students. And to find out the t value that has been obtained, which is 5,864 will be higher or lower. Therefore, the researcher will compare the calculated $t$ value that has been obtained with the $t_{t}(t$ table $)$ value.

The researcher will calculate the number of df (degrees of freedom) using formula $\mathrm{df}=\mathrm{N}-1$, then we can calculate it with $\mathrm{df}=26-1=25$, so the df of the study is 25 . So based on the existing table, $\mathrm{t}_{\mathrm{t}}(\mathrm{t}$ table) from df that is 25 with a significance level f $5 \%$ which is 2,06 . Based on the data analysis that has been described previously, which shows that the data obtained is higher than the $\mathrm{t}_{\mathrm{t}}(\mathrm{t}$ table) value, with the results obtained $5,864>2,06$.

In the problem of study of this research, it can be said that the students who are taught by Classwide Peer Tutoring strategy have better achievement in their reading comprehension of the tenth grade at Senior High School 1 Galis. Because based on the data that has been described previously, that the score obtained from the post-test is higher than the pretest score of the tenth grade at Senior High School 1 Galis. So that the Ha (Alternative Hypothesis) is accepted while the Ho (Null Hypothesis) is rejected.

So based on the above statement in this research, using Classwide Peer Tutoring strategies can make students better at reading comprehension.

In addition, Classwide Peer Tutoring has several advantages for students, including the following:
a. Students are motivated to become peer tutors.
b. Can make easier for teachers, because teachers are assisted by students who have ability or the most accomplished in the class.
c. Students can practice like being a teacher.
d. Students are not afraid to ask questions if they do not understand the lesson, because guided by his own friend.
e. The learning process will be more familiar, because it is done by the students themselve. ${ }^{3}$

So from the research that has been done, using Classwide Peer Tutoring can make students more active in the class, students will not be afraid to ask each other if something is not understood about the learning material, and the learning process will make them less awkward or more familiar with each other beacuse they study with their own friends.

## 2. The difference students' reading comprehension before and after using Classwide Peer Tutoring strategy towards of the tenth grade at Senior High School 1 Galis

In this research, the results of the pre-test that had been carried out by students before applying the Classwide Peer Tutoring strategy got the lowest score of 25 , the highest score of 95 with an average of 65,96 . Based on these data, it can be concluded that the motivation and learning outcomes of students before applying the Classwide Peer Tutoring strategy to the reading

[^5]comprehension of the tenth grade at Senior High School 1 Galis are still in the poor or low category.

After applying the Classwide Peer tutoring strategy to students' reading comprehension, the researcher conducted a post-test. The results of the post-test that have been carried out have shown an increase in students activity in learning. It is shown that the highest score obtained by students is 100 while the lowest score is 30 , the average obtained is 67,88 . Based on the value of $t_{t}(t$ table) with a significant level of $5 \%$, which is 2,06 while the t value obtained is 6,178. If 5,864>2,06, it can be concluded that Ha (Alternative Hypothesis) is accepted and Ho (Null Hypothesis) is rejected.


[^0]:    ${ }^{1}$ Nuryadi Dkk, Dasar-Dasar Statistik Penelitian, (Yogyakarta: Sibuku Media, 2017), 274.

[^1]:    ${ }^{2}$ Edisi Revisi, Pedoman Karya Tulis Ilmiah (Pamekasan: IAIN Madura, 2020), 24-25.

[^2]:    ${ }^{3}$ Suharsimi Arikunto, Prosedur Penelitian Suatu Pendekatan Praktik, 232.

[^3]:    ${ }^{1}$ Dupaul, GJ dkk, "Peer Tutoring For Children With Attention Deficit Hyperactivity Disorder", Jurnal Of Applied Behavior Analysis, Vol. 31, No. 4, 579-592.

[^4]:    ${ }^{2}$ Ibid, 579-592.

[^5]:    ${ }^{3}$ Istarani, Kumpulan 39 Metode Pembelajaran, 150

