CHAPTER IV

FINDING AND DISCUSSION

This chapter discusses about findings of research based on the data which were obtained during the research. It presents finding and discussion.

4.1 Students' Mastery of Past Tense and Writing Narrative Text

Based on data, the test between past tense and writing narrative text had been tried out in other class. The purpose is to know the reliability and validity this test. But on the other hand is also to show the result completely of try out both data, this result can be seen *in appendix 1 and 2.* To check the result of reliability test of past tense *see appendix 3* and checking the reliability of writing narrative text *see appendix 4.* And to check the correlation result of try out *see appendix 5.*

Furthermore, based on the test which was administered for the twelfth grade student of Senior high school 1 Kamal, the average score of past tense mastery is 69,33. Thus, they have fair score in past tense mastery. *See appendix 6*

In the data that has acquired from an analysis , it can be seen that the sample of 30 students, there were 7 students acquired very good, 10 students acquired good, 5 students acquired fair, 2 students acquired poor, and 6 students acquired very poor in the test of students' mastery of past tense.

Meanwhile, in writing narrative test, the research obtained average score 69,7 It means that they have fair score in writing narrative text. *See appendix 7.* The proved is among the sample of 30 students in writing test, there were 2 students acquired excellent, 12 students acquired very good, 10

students acquired good, 4 students acquired poor, and 2 students acquired very poor.

In this research, the students who have good score in mastering past tense affected the achievement in writing narrative text. This is the fact that the students who tested of past tense and got good score, it can create good outlays in writing narrative text.

Shortly, in this research there are 8 students who obtain good score in both tests. They are student number 1 who obtained 84 in past tense test and 90 in writing, student number 7 who obtained 92 in past tense test and 90 in writing, student number 11 who obtained 90 in past tense test and 80 in writing, student number 14 who obtained 94 in past tense test and 90 in writing, student number 15 who obtained 88 in past tense test and 80 in writing, student number 18 who obtained 90 in past tense test and 90 in writing, student number 21 who obtained 88 in past tense test and 90 in writing, student number 28 who obtained 90 in past tense test and 82 in writing.

In the opposite, the students who can not do both test well. They have poor score even very poor score. They are student number 2 who obtained 40 in past tense and 54 in writing, student number 4 who obtained 30 in past tense and 42 in writing, student number 6 who obtained 42 in past tense and 54 in writing, student number 8 who obtained 40 in past tense and 50 in writing, student number 16 who obtained 42 in past tense and 60 in writing.

By knowing the illustration above, the students who have poor score even very poor score, it can be conclude that those students is failed doing

past tense test so that the sore of writing is also interference. It means that the writing score is also poor even very poor.

Based on the finding and explanations above, the students will be successful if they have fair score or at least 61 to 100 and they become failed if they have score under 61. Thus, the researcher concludes that there is a positive correlation between students' mastery of past tense and their achievement in writing narrative text.

4.2 The Correlation between Students' Mastery of Past Tense and Their Achievement in Writing Narrative Text.

This research indicates that there is significant correlation between student's mastery of past tense and their ability in writing narrative text. From the data that was acquired, there is positive correlation between student's mastery of past tense and their ability in writing narrative text. This is the proved that the value of correlation coefficient is high. It can be seen in the process below.

$$r_{11} = \frac{N}{N-1} \left(1 - \frac{m(N-m)}{Nx^2} \right)$$

Where,

R11   : Reliability

N   : The number of items in the test

m   : The mean score on the test

x^2 : Standard deviation of the test score

Before searching reliability test, it must search mean and standard deviation first. This data is acquired from the score of past tense test and writing test.

Table 4.1
The Mean Data of Past Tense Test (f_x)

TABLE		
X	F	Fx
90	4	360
84	1	84
82	2	164
80	3	240
78	2	156
76	2	152
72	3	216
70	4	280
64	1	64
60	2	120
50	1	50
42	2	84
40	2	80
30	1	30
Total $\sum fx$		2080

Where,

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

$$= \frac{2080}{50}$$

$$= 42$$

The mean of this research is 42. This number will link into the next step where the score of students' mastery of past tense namely low and the high score will be deviated 42. This means that to find out the result of standard deviations. The process to search standard deviations is in this formula below.

Table 4.2
The Standard Deviations of Past Tense Test

Score	Mean deviation (d)	Squared (d^2)
90 **deviated 42**	48	2304
90	48	2304
90	48	2304
90	48	2304
84	42	1764
82	40	1600
82	40	1600
80	38	1444
80	38	1444
78	36	1296
78	36	1296
76	34	1156
76	34	1156
72	30	900
72	30	900
72	30	900
70	28	784
70	28	784
70	28	784
70	28	784
64	22	484
60	18	324
60	18	324
50	8	64
42	8	64
42	8	64
40	-2	4
40	-2	4
30	-12	144
2080	Total	**29284**
		$\sqrt{\dfrac{29284}{29}}$
		31,8

Based on calculating the data above, the value of standard deviations is 31,8. This score is obtained from score of mastery past tense that deviated with mean value 42. The result of calculation is called by mean deviation. Furthermore, the result of mean deviation is squared.

Thus, to create result of standard deviation all the data is calculated using

formula $\sqrt{\frac{\Sigma_d 2}{N}}$.

Furthermore, all requirements to find out correlation is obtained so that the value of mean is 42 and the value of standard deviations is 31,8 is inserted in this formula below

$$r_{11}=\frac{N}{N-1}\left(1-\frac{m(N-m)}{Nx^2}\right)$$

$$r_{11}=\frac{50}{49}\left(1-\frac{42(50-42)}{50(31.8)^2}\right)$$

$$r_{11}=1,02\left(1-\frac{42\ x\ 8}{50\ x\ 1011,2}\right)$$

$$r_{11}=1,02\left(1-\frac{336}{50560}\right)$$

$$r_{11}=1,02(1-0,007)$$

$$r_{11}=1,02(0,99)$$

$$r_{11}=1,00$$

Based on the formula above, the result of r_{11} is 1,00 the researcher linked to the r table with sample 30, the value of r_{11} is 1,00. This means that the coefficients 1,00 showed high to very high .

Meanwhile, to prove and check other data namely writing test score, researcher also apply and conduct with the same step which is calculated in past tense test process. This means that researcher calculate and find out the result of mean of writing test and also search the result of standard deviations of writing test. The result of writing test will be calculated using same formula which is applied in past tense test. Here, the writing scores as seen in this table below.

Table 4.3
The Mean Data of Writing Test (f_y)

TABLE		
Y	F	f_y
94	1	94
92	1	92
90	5	450
88	3	264
84	2	168
82	2	164
80	3	240
78	3	234
76	1	76
74	1	74
72	2	144
60	2	120
54	2	108
50	1	50
42	1	42
Total $\sum fy$		2320

Where,

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

$$= \frac{2320}{50}$$

$$= 46$$

The mean of writing test is 46. This value will calculate to search

standard deviations of writing test using formula $\sqrt{\frac{\sum d^2}{N}}$. The high and low

score of writing test will be deviated the mean value of writing test 46. As

seen in this table below

Table 4.4
The Standard Deviations of Writing Test

Score	Mean deviation (d)	Squared (d^2)
94**deviated 46**	48	2304
92	46	2116
90	40	1600
90	40	1600
90	40	1600
90	40	1600
90	40	1600
88	42	1764
88	42	1764
88	42	1764
84	38	1444
84	38	1444
82	36	1296
82	36	1296
80	34	1156
80	34	1156
80	34	1156
78	32	1024
78	32	1024
78	32	1024
76	30	900
74	28	784
72	26	676
72	26	676
60	24	576
60	24	576
54	8	64
54	8	64
50	4	16
42	-4	16
2080	Total	**29284**
		$\sqrt{\dfrac{34080}{30}}$
		33,7

Furthermore, the result of mean and standard deviations of writing test will be calculated using this formula below. The mean of writing test is 46 and the standard deviations is 33,7. Thus, those values will be inserted in this process.

$$r_{11} = \frac{N}{N-1}\left(1 - \frac{m(N-m)}{Nx^2}\right)$$

$$r_{11} = \frac{50}{49}\left(1 - \frac{46(50-46)}{50(33.7)^2}\right)$$

$$r_{11} = 1{,}02\left(1 - \frac{46 \; x \; 4}{50 \; x \; 1135{,}7}\right)$$

$$r_{11} = 1{,}02\left(1 - \frac{184}{56785}\right)$$

$$r_{11} = 1{,}02(1 - 0{,}003)$$

$$r_{11} = 1{,}02(0{,}99)$$

$$r_{11} = 1{,}00$$

Based on data above, both score of past tense and writing test have calculated. The index scale showed that r_{11} of both result is 1,00. It means that r_{11} is high to very high when it linked with r table.

Finally, because this research seek the correlation between students' mastery of past tense and their achievement in writing narrative text, all score of past tense and writing have to be calculated using formula correlation. The both score of past tense and writing is in *appendix 6 and 7*. Here, the table below is the square and multiple score of mastery past tense and writing narrative text. This data will be calculated to check and find out the result of correlation.

Table 4.3
The Square and Multiplied X and Y

Students' Number	X	Y	X^2	Y^2	XY
1	84	90	7056	8100	7560
2	40	54	1600	2916	2160
3	60	72	3600	5184	4320
4	30	42	900	1764	1260
5	72	80	5184	6400	5760
6	42	54	1764	2916	2268
7	90	92	8100	8464	8280

8	40	50	1600	2500	2000
9	70	76	4900	5776	5320
10	80	90	6400	8100	7200
11	82	88	6724	7744	7216
12	78	80	6084	6400	6240
13	72	80	5184	6400	5760
14	90	94	8100	8836	8460
15	80	88	6400	7744	7040
16	42	60	1764	3600	2520
17	76	82	5776	6724	6232
18	90	90	8100	8100	8100
19	78	84	6084	7056	6552
20	76	78	5776	6084	5928
21	90	88	8100	7744	7920
22	70	78	4900	6084	5460
23	60	72	3600	5184	4320
24	50	60	2500	3600	3000
25	70	78	4900	6084	5460
26	64	74	4096	5476	4736
27	80	90	6400	8100	7200
28	82	90	6724	8100	7380
29	70	82	4900	6724	5740
30	72	84	5184	7056	6048
∑	**2080**	**2320**	**152400**	**184960**	**167440**

To check the research finding, the researcher applies the Pearson product moment correlational formula to calculate the data that have been acquired.As seen in this formula below:

$$Rxy = \frac{N \sum XY - (\sum X)(\sum Y)}{\sqrt{\{N \sum X^2 - (\sum X)^2\} \{N \sum Y^2 - \sum Y)^2\}}}$$

$$= \frac{30(167440) - (2080)(2320)}{\sqrt{\{30(152400) - (2080)^2\} \{30(184960) - (2320)^2\}}}$$

$$= \frac{5023200 - 4825600}{\sqrt{\{4705200 - 4326400\} \{5548800 - 5382400\}}}$$

$$= \frac{200168}{(615467,3)(407921,1)}$$

$$= \frac{200168}{251062,09}$$

$$= 0,797$$

Table 4.3
Interpretation of Number Correlation (r Score)

Coefecients	Relationship
0,80 - 1,00	High to very high
0,60 - 0,80	Substantial
0,40 – 0,60	Moderate
0,20 – 0,40	Low
0,00 – 0,20	Negligible

The Rxy value 0,797 is great score in correlational. Based on the formula above, the researcher calculated that between Rxy 0,797 and r_{11} 1,00 the researcher linked to the r table with sample 30, the outlay showed if $r_{11}>$ Rxy is reliable and create a correlation relationship. This statement means that in creating correlation, it needs better score in past tense, because the better score in the past affect the result of writing score. On the other hand, in narrative text, the grammar features is past tense. Thus, the main requirement to create good narrative text has to be master of past tense. However, the outlay of high score in past tense is not became main factor in writing narrative text. There are other factors suchtheir moody, their health, their assumption in learning English and the difficulty of test. Those factors is became external factors because it is not index scale in calculating students' mastery of past tense and their achievement in writing narrative text. Beside that, supporting factor in this research is difficulty test. In this research, the test is categorized as 3 criteria. The calculation the index difficulties of test see *appendix 8.* As seen in this table below.

Table 4.4
The Result of Index Difficult Past Tense Test Items

Criteria	Number of Items
Easy	1,8,9,11,13,15,18,21,22,23,26,30, 31,35,38,39,42,44,47,48
Medium	2,3,5,6,7,12,14,16,19,20,25,28, 32,33,36,37,40,41,45,49,50
Difficult	4,10,17,24,27,29,34,43,46

Furthermore, this factor is also necessary to create the correlation between students' mastery of past tense and their achievement in writing narrative text. The difficulty test also influences the result of writing narrative text because if the test is too easy, it will create bad writing narrative text. Easy test means that the researcher only gave the regular verb to the students. Therefore, the test must be real and appropriate to the students. Not only the general past tense which administered to the students but the test must be categorized in 3 aspects namely easy, medium and difficult test. To create good writing narrative test, the difficulty of test must be random. It means that the test has various one. It can be taken 20 easy test of past tense, 20 medium test of past tense and 10 difficult test of past tense, if the number of past tense test is 50. Even though the number of test is not 50 items, the researcher must manage or divide as good as possible. It means that the test must be managed well, for instance the test is 50 items. The managing of difficulty test is 20 item tests first include easy, medium and difficult test, 20 item tests second also include easy, medium and difficult test and 10 items also include easy, medium and difficult test. Thus, the positioned of difficulty test also influence the result of writing narrative text in creating correlation between students' mastery of past tense and their achievement in writing narrative text. Even though, the difficult test is managed well, the assessing in creating good writing narrative text is

also needed because it indicates the level of difficulty of writing. This thing must appear because the researcher knowshow the students develop the ideas in writing narrative text. Developing ideas in writing supported the students enlarge their mind so that it will interfered how they organize the main idea and supporting ideas with good grammar which related in grammar feature of narrative text. Therefore, aspects in writing have to be considered such as indicating the content, text organization, vocabularies, grammar features and writing mechanism. Those items have points to indicate the scores of students' writing whether they got poor or excellent score in writing test. Therefore, in this research need to prove the result of past tense score and writing score to create the correlation.

Shortly, based on explanations above the data which was proved and all data was obtained from calculation of mean, standard deviation, reliability values. The outlays of this research showed that there is positive correlation between students' mastery of past tense and their achievement in writing narrative text. The value of r_{xy} has substantial value. The value of r_{xy} is 0,797. Thus, when it linked to r table with N = 30, it created that the value of r_{xy} is substantial or higher than r table. This outlays explains that the student's mastery of past tense influence to their achievement in writing narrative text. This means that they correlate each other because the past tense score and writing score were high. To create the correlation in this research the students' score of both tests may not fewer than 61. The students obtained high score because they conduct both tests seriously and they were master of past tense. It can see in the result of past tense score.

Among of them obtained good performance in both tests. Therefore, in this research students' mastery of past tense and writing narrative text correlated each other.