

CHAPTER IV

FINDINGS AND DISCUSSION

A. Findings

On this data findings, the writer describes about the result of the research on the written test result as the primary data to better understand about the relationship between the students' achievement in English lesson and the student's achievement in Computer lesson.

1. Description About The Students' Achievement in English Lesson at Tenth Grade of Secretary Program (Office Administration) at SMKN 1 Pelaihari academic Year 2012/2013

To better understand about the students' achievement in English lesson, the writer conducted the written test of English lesson on 30th May 2013 and 17th June 2013.

Based on the result of the written test (error recognition) of English lesson at tenth grade students at Secretary (Office Administration) program of SMKN 1 Pelaihari academic Year 2012/2013, it is found the data that the highest score is 90 and the lowest is 40. The accumulated score is 5565. The written test result can be seen on the following table:

Table 4.1 The Test Result of students' achievement in English lesson

No	Subject	The Score of the students' Achievement in English Lesson
1	A	80
2	B	75
3	C	80
4	D	80

Continuing of Table 4.1

The Test Result of students' achievement in English lesson

5	E	80
6	F	80
7	G	85
8	H	50
9	I	90
10	J	90
11	K	80
12	L	75
13	M	75
14	N	90
15	O	80
16	P	70
17	Q	80
18	R	40
19	S	85
20	T	70
21	U	70
22	V	70
23	W	85
24	X	60
25	Y	75
26	Z	80
27	AA	80
28	BB	90
29	CC	85
30	DD	80
31	EE	50
32	FF	85
33	GG	70
34	HH	80
35	II	80
36	JJ	90
37	KK	85
38	LL	90
39	MM	85

The continuing of table 4.1

The Test Result of students' achievement in English lesson

40	NN	75
41	OO	50
42	PP	65
43	QQ	60
44	RR	65
45	SS	65
46	TT	60
47	UU	60
48	VV	60
49	WW	90
50	XX	85
51	YY	70
52	ZZ	65
53	AAA	65
54	BBB	85
55	CCC	65
56	DDD	50
57	EEE	75
58	FFF	75
59	GGG	75
60	HHH	80
61	JJJ	70
62	III	75
63	JJJ	60
64	KKK	40
65	LLL	75
66	MMM	60
67	NNN	50
68	OOO	65
69	PPP	50
70	QQQ	70
71	RRR	80
72	SSS	65
73	TTT	85
74	UUU	70
75	VVV	50
76	XXX	50
77	YYY	85
	N	5565

Table 4.2 Classifying students' score of the students' achievement in English lesson at tenth grade of secretary program (office administration) at SMKN 1 pelaihari academic year 2012/2013

No.	Category	Score	Frequency	Percentage
1	Excellent	80 – 100	33	42.85%
2	Good	70 – < 80	19	24.67%
3	Fair	60 – < 70	15	19.48%
4	Low	50 – < 60	8	10.4%
5	Poor	0 – < 50	2	2.6%
Total			77	100%

From the data above, which shows the students' achievement in English lesson based on its categories, there are 33 students (42,85%) are in excellent category, 19 students get the score 70-<80 (good category), 16 students (19,48%) Who get the score 60-<70 (fair category), 8 students (10.4%) who get the score 50-<60 (low category) and 2 students (2,6%) who get the score 0-<50 in poor category.

2. Description About The Students' Achievement in Computer Lesson at Tenth Grade of Secretary Program (Office Administration) at SMKN 1 Pelaihari academic Year 2012/2013

To better understand about the students' achievement in English lesson, the writer conducted the written test of English lesson on 30th May 2013 and 17th june 2013.

Based on the result of the written test (multiple choice) of Computer lesson at tenth grade students at Secretary (Office Administration) program of SMKN 1

Pelaihari academic Year 2012/2013, it is found the data that the highest score is 95 and the lowest is 40. The accumulated score is 5625. The written test result can be seen on the following table :

Table 4.3 The Test Result of students' achievement in Computer lesson

No	Subject	The Score of the students' Achievement in Computer Lesson
1	A	80
2	B	85
3	C	80
4	D	80
5	E	85
6	F	80
7	G	80
8	H	80
9	I	75
10	J	90
11	K	90
12	L	75
13	M	90
14	N	95
15	O	80
16	P	80
17	Q	95
18	R	85
19	S	85
20	T	90
21	U	85
22	V	80
23	W	90
24	X	70
25	Y	75
26	Z	75
27	AA	85
28	BB	80
29	CC	85
30	DD	90

Continuing of Table 4.3
The Test Result of students' achievement in Computer lesson

31	EE	80
32	FF	75
33	GG	85
34	HH	80
35	II	90
36	JJ	80
37	KK	80
38	LL	85
39	MM	80
40	NN	60
41	OO	40
42	PP	70
43	QQ	60
44	RR	60
45	SS	55
46	TT	60
47	UU	70
48	VV	65
49	WW	95
50	XX	75
51	YY	60
52	ZZ	60
53	AAA	70
54	BBB	75
55	CCC	75
56	DDD	60
57	EEE	70
58	FFF	65
59	GGG	70
60	HHH	40
61	III	65
62	JJJ	65
63	KKK	60
64	LLL	40
65	MMM	60
66	NNN	60
67	OOO	60
68	PPP	75
69	QQQ	55
70	RRR	60

Continuing of Table 4.3

The result of the students' achievement in computer lesson

71	SSS	65
72	TTT	55
73	UUU	75
74	VVV	50
75	WWW	55
76	XXX	60
77	YYY	80
N		5625

Table 4.3 Classifying students' score of the students' achievement in Computer lesson at tenth grade of secretary program (office administration) at SMKN 1 pelaihari academic year 2012/2013

No.	Category	Score	Frequency	Percentage
1	Excellent	80 – 100	35	42.46%
2	Good	70 – < 80	16	20,77%
3	Fair	60 – < 70	18	23,37%
4	Low	50 – < 60	5	6.5%
5	Poor	0 – < 50	3	3.9%
Total			77	100%

From the data above, which shows the students' achievement in Computer lesson based on its categories, there are 35 students (42,46%) are in excellent category, 16 students get the score 70-<80 (good category), 18 students (23,37%) Who get the score 60-<70 (fair category), 5 students (6.5%) who get the score 50-<60 (low category) and 2 students (3.9%) who get the score 0-<50 in poor category.

3. Description About the Correlation Between Students' Achievement in English Lesson and Student's Achievement in Computer Lesson at Tenth Grade of Secretary Program (Office Administration) at SMKN 1 Pelaihari academic Year 2012/2013

The data is taken directly from the students using written test to get their achievement in English lesson, by using error analysis test form, and multiple choice form.

The data of score of the students' achievement in English Lesson and Computer Lesson can be seen on the table below.

Table 4.4 The scores of the students achievement in English Lesson and the students' achievement in Computer Lesson.

No	Subject	The Score of the students' Achievement in English Lesson	The Score of the students' Achievement in Computer Lesson
1	A	80	80
2	B	75	85
3	C	80	80
4	D	80	80
5	E	80	85
6	F	80	80
7	G	85	80
8	H	50	80
9	I	90	75
10	J	90	90
11	K	80	90
12	L	75	75
13	M	75	90
14	N	90	95
15	O	80	80
16	P	70	80
17	Q	80	95
18	R	40	85
19	S	85	85

Continuing of Table 4.4

The scores of the students' achievement in English Lesson and the students' achievement in Computer Lesson

20	T	70	90
21	U	70	85
22	V	70	80
23	W	85	90
24	X	60	70
25	Y	75	75
26	Z	80	75
27	AA	80	85
28	BB	90	80
29	CC	85	85
30	DD	80	90
31	EE	50	80
32	FF	85	75
33	GG	70	85
34	HH	80	80
35	II	80	90
36	JJ	90	80
37	KK	85	80
38	LL	90	85
39	MM	85	80
40	NN	75	60
41	OO	50	40
42	PP	65	70
43	QQ	60	60
44	RR	65	60
45	SS	65	55
46	TT	60	60
47	UU	60	70
48	VV	60	65
49	WW	90	95
50	XX	85	75
51	YY	70	60
52	ZZ	65	60
53	AAA	65	70
54	BBB	85	75
55	CCC	65	75
56	DDD	50	60
57	EEE	75	70
58	FFF	75	65
59	GGG	75	70

Continuing of Table 4.4

The scores of the students' achievement in English Lesson and the students' achievement in Computer Lesson

60	HHH	80	40
61	III	70	65
62	JJJ	75	65
63	KKK	60	60
64	LLL	40	40
65	MMM	75	60
66	NNN	60	60
67	OOO	50	60
68	PPP	65	75
69	QQQ	50	55
70	RRR	70	60
71	SSS	80	65
72	TTT	65	55
73	UUU	85	75
74	VVV	70	50
75	WWW	50	55
76	XXX	50	60
77	YYY	85	80
	N	5565	5625

B. Discussion

1. To define the degree of students' achievement in English Lesson and computer lesson.

a. From the data above, it can be defined the mean (M) of the students' score

by using the formula below:

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

$$M_y = \frac{\sum Y}{N}$$

Thus, based on table score, it can be known that:

$$\sum X = 5565$$

$$\sum Y = 5625$$

$$M_x = \frac{5565}{77} = 72,27$$

$$M_y = \frac{5625}{77} = 73.05$$

After the mean of data X and Y are defined, the writer makes working table as below:

Table 4.5 Working data of analysis data

Subject	X	Y	x	y	xy	x ²	y ²
A	80	80	7,73	6,95	53,7235	59,7529	48,3025
B	75	85	2,73	11,95	32,6235	7,4529	142,8025
C	80	80	7,73	6,95	53,7235	59,7529	48,3025
D	80	80	7,73	6,95	53,7235	59,7529	48,3025
E	80	85	7,73	11,95	92,3735	59,7529	142,8025
F	80	80	7,73	6,95	53,7235	59,7529	48,3025
G	85	80	12,73	6,95	88,4735	162,0529	48,3025
H	50	80	-22,27	6,95	-154,777	495,9529	48,3025
I	90	75	17,73	1,95	34,5735	314,3529	3,8025
J	90	90	17,73	16,95	300,5235	314,3529	287,3025
K	80	90	7,73	16,95	131,0235	59,7529	287,3025
L	75	75	2,73	1,95	5,3235	7,4529	3,8025
M	75	90	2,73	16,95	46,2735	7,4529	287,3025
N	90	95	17,73	21,95	389,1735	314,3529	481,8025
O	80	80	7,73	6,95	53,7235	59,7529	48,3025
P	70	80	-2,27	6,95	-15,7765	5,1529	48,3025
Q	80	95	7,73	21,95	169,6735	59,7529	481,8025
R	40	85	-32,27	11,95	-385,627	1041,353	142,8025
S	85	85	12,73	11,95	152,1235	162,0529	142,8025
T	70	90	-2,27	16,95	-38,4765	5,1529	287,3025
U	70	85	-2,27	11,95	-27,1265	5,1529	142,8025
V	70	80	-2,27	6,95	-15,7765	5,1529	48,3025

Continuing of Table 4.5

Working data of analysis data

W	85	90	12,73	16,95	215,7735	162,0529	287,3025
X	60	70	-12,27	-3,05	37,4235	150,5529	9,3025
Y	75	75	2,73	1,95	5,3235	7,4529	3,8025
Z	80	75	7,73	1,95	15,0735	59,7529	3,8025
AA	80	85	7,73	11,95	92,3735	59,7529	142,8025
BB	90	80	17,73	6,95	123,2235	314,3529	48,3025
CC	85	85	12,73	11,95	152,1235	162,0529	142,8025
DD	80	90	7,73	16,95	131,0235	59,7529	287,3025
EE	50	80	-22,27	6,95	-154,777	495,9529	48,3025
FF	85	75	12,73	1,95	24,8235	162,0529	3,8025
GG	70	85	-2,27	11,95	-27,1265	5,1529	142,8025
HH	80	80	7,73	6,95	53,7235	59,7529	48,3025
II	80	90	7,73	16,95	131,0235	59,7529	287,3025
JJ	90	80	17,73	6,95	123,2235	314,3529	48,3025
KK	85	80	12,73	6,95	88,4735	162,0529	48,3025
LL	90	85	17,73	11,95	211,8735	314,3529	142,8025
MM	85	80	12,73	6,95	88,4735	162,0529	48,3025
NN	75	60	2,73	-13,05	-35,6265	7,4529	170,3025
OO	50	40	-22,27	-33,05	736,0235	495,9529	1092,303
PP	65	70	-7,27	-3,05	22,1735	52,8529	9,3025
QQ	60	60	-12,27	-13,05	160,1235	150,5529	170,3025
RR	65	60	-7,27	-13,05	94,8735	52,8529	170,3025
SS	65	55	-7,27	-18,05	131,2235	52,8529	325,8025
TT	60	60	-12,27	-13,05	160,1235	150,5529	170,3025
UU	60	70	-12,27	-3,05	37,4235	150,5529	9,3025
VV	60	65	-12,27	-8,05	98,7735	150,5529	64,8025
WW	90	95	17,73	21,95	389,1735	314,3529	481,8025
XX	85	75	12,73	1,95	24,8235	162,0529	3,8025
YY	70	60	-2,27	-13,05	29,6235	5,1529	170,3025
ZZ	65	60	-7,27	-13,05	94,8735	52,8529	170,3025
AAA	65	70	-7,27	-3,05	22,1735	52,8529	9,3025
BBB	85	75	12,73	1,95	24,8235	162,0529	3,8025
CCC	65	75	-7,27	1,95	-14,1765	52,8529	3,8025
DDD	50	60	-22,27	-13,05	290,6235	495,9529	170,3025
EEE	75	70	2,73	-3,05	-8,3265	7,4529	9,3025
FFF	75	65	2,73	-8,05	-21,9765	7,4529	64,8025
GGG	75	70	2,73	-3,05	-8,3265	7,4529	9,3025
HHH	80	40	7,73	-33,05	-255,477	59,7529	1092,303
III	70	65	-2,27	-8,05	18,2735	5,1529	64,8025
JJJ	75	65	2,73	-8,05	-21,9765	7,4529	64,8025
KKK	60	60	-12,27	-13,05	160,1235	150,5529	170,3025

Continuing of Table 4.5

Working data of analysis data

LLL	40	40	-32,27	-33,05	1066,524	1041,353	1092,303
MMM	75	60	2,73	-13,05	-35,6265	7,4529	170,3025
NNN	60	60	-12,27	-13,05	160,1235	150,5529	170,3025
OOO	50	60	-22,27	-13,05	290,6235	495,9529	170,3025
PPP	65	75	-7,27	1,95	-14,1765	52,8529	3,8025
QQQ	50	55	-22,27	-18,05	401,9735	495,9529	325,8025
RRR	70	60	-2,27	-13,05	29,6235	5,1529	170,3025
SSS	80	65	7,73	-8,05	-62,2265	59,7529	64,8025
TTT	65	55	-7,27	-18,05	131,2235	52,8529	325,8025
UUU	85	75	12,73	1,95	24,8235	162,0529	3,8025
VVV	70	50	-2,27	-23,05	52,3235	5,1529	531,3025
WWW	50	55	-22,27	-18,05	401,9735	495,9529	325,8025
XXX	50	60	-22,27	-13,05	290,6235	495,9529	170,3025
YYY	85	80	12,73	6,95	88,4735	162,0529	48,3025
	5565	5625			7340,91	12527,27	13257,79

Then the writer determines the degree of rxy by implementing formula as follow:

$$r_{xy} = \frac{\sum xy}{\sqrt{(\sum x^2)(\sum y^2)}}$$

Where :

r_{xy} = The correlation coefficient between correlated variables X and Y.

$\sum xy$ = The sum of the multiplication between variable X score and variable Y score.

$\sum x^2$ = The sum of standard deviation from variable X.

$\sum y^2$ = The sum of standard deviation from variable Y

Finally, from the working table, it can be known that:

$$\sum xy = 7340,91$$

$$\sum x^2 = 12527,27$$

$$\sum y^2 = 13257,79$$

So, the result is

$$r_{xy} = \frac{7340,91}{\sqrt{(12527,27)(13257,79)}}$$

$$r_{xy} = \frac{7340,91}{\sqrt{(166083990)}}$$

$$r_{xy} = \frac{7340,91}{12887,35776}$$

$$r_{xy} = 0,569620991$$

$$r_{xy} = 0,57$$

To know the degree of freedom (db/df) is

$$df = N-2$$

$$df = 77-2$$

$$df = 75$$

After finding the result of the calculation by using correlation formula, the writer re-calculates the data by using the *Statistical Package for the Social Science* (SPSS) in order to confirm the calculation result, and the result is 0,57.

The result from SPSS is seen in the following table:

Table 4.6 SPSS Correlation result

Correlations					
		Value	Asymp. Std. Error ^a	Approx. T ^b	Approx. Sig.
Interval by Interval	Pearson's R	,570	,099	6,002	,000 ^c
N of Valid Cases		77			

2. To the hypothesis

After findings the data, the writer analyzes all obtained data to give some consideration on the research.

a. The students' achievement in English lesson at tenth grade of secretary program (office administration) at SMKN 1 Pelaihari

The findings data on the previous subchapters show that most of students are excellent category, that is 33 students (42,85%) 19 students get the score 70-<80 (good category), 16 students (19,48%) who get the score 60-<70 (fair category), 8 students (10.4%) who get the score 50-<60 (low category) and 2 students (2,6%) who get the score 0-<50 in poor category.

Thus, above the total score of students' achievement in English lesson are 5565 of 77 students and the mean score is 72,27.

b. The students' achievement in Computer lesson at tenth grade of secretary program (office administration) at SMKN 1 Pelaihari.

The findings data on the previous subchapters also shows that there are 35 students (42,46%) are in excellent category, 16 students get the score 70-<80 (good category), 18 students (23,37%) who get the score 60-<70 (fair category), 5 students (6.5%) who get the score 50-<60 (low category) and 2 students (3.9%) who get the score 0-<50 in poor category. The total scores of students' achievement in computer lesson are 5626 of 77 students and the mean score is 73,06 (Fair category).

c. Based on the result above, r_{xy} is 0, 57. By looking at the table of coefficient correlation degree of Pearson product moment, it can be known whether there is a significant correlation or not. For $N= 75$ r table in 5% is 0,227 and r table in 1% is 0,296. It means the hypothesis null (H_0) is denied and the hypothesis alternative (H_a) is accepted. So it can be concluded that there is a significant correlation between the students' achievement in English lesson and the students' achievement in Computer lesson. According to Standard Classification of correlation, the degree of correlation is positive and occurs in 0,40 - < 0,60 level. It can be stated that be the correlation between the students' in English lesson and the students' achievement in Computer lesson is in fair category.