

CHAPTER IV

DATA PRESENTATION AND ANALYSIS

A. Data of School

MAN 4 Marabahan on Jln. Brigjen H. Hasan Basri RT. 11 Sei Gampa Asahi Village Rantau Badauh Sub District Barito Kuala Regency South Kalimantan Province 70561 was built in 1984 with the name, Nurul Huda. From year 1997, this school has been become public school with new name, MAN 4 Marabahan. This school has got accreditation status B in the year 2004.

There are some teachers in MAN 4 Marabahan, they are an Islamic Cultural History teacher, two Arabic teachers, two Economy teachers, an Accountancy teacher, two Computer teachers, a Biology teacher, a Chemistry teacher, a Physic teacher, a Piqih teacher, an Indonesian teacher, a Mathematic teacher, a History and Civic Education teacher, a Hadits teacher, two Art and Culture teachers, a Sport Lesson teacher, a Mulok teacher, a Geography teacher, a Sociology teacher, and two English teachers.

B. Data Presentation

1. Students' Achievement in Vocabulary

The data about students' achievement in vocabulary (data x) was acquired from vocabulary written test. After the vocabulary written test has been collected, this data is in the form of qualitative data. Then, the data is changed to be quantitative data through qualification process. The result of vocabulary written test is shown in the table as follows.

Table 4.1 Students' Achievement in Vocabulary

Students' Code Number	Students' Achievement in Vocabulary (X)
1	50
2	65
3	70
4	70
5	40
6	65
7	55
8	70
9	85
10	60
11	70
12	70
13	70
14	50
15	70
16	70
17	55
18	85
19	40
20	70
21	30
22	65
23	65
24	40
25	70
26	70
27	70

28	70
29	75
30	65
31	45
32	70
33	65
34	70

Continuing Table

35	65
36	70
37	60
38	30
39	60
40	65
41	70
42	50
43	80
44	35
45	70
46	50
47	80
48	80
49	80
50	80
51	50
52	70
53	70
54	70
55	70
56	70
57	70
58	70
59	40
60	55
61	55
62	60
63	60
64	60
65	60

66	60
67	60
68	50
69	70
70	40
71	15
72	25

Continuing Table

73	80
74	50
75	55
76	50
77	55
78	55
79	60
80	65
81	50
N = 81	$\Sigma X = 4,945$

2. Students' Achievement in Listening Skill

The data about students' achievement in listening skill (data y) was acquired from listening test. This data is in the form of qualitative data. Then, the data is changed to be quantitative data through qualification process. The result of the listening test is shown in the table as follows.

Table 4.2 Students' Achievement in Listening skill

Students' Code Number	Students' Achievement in Listening Skill (Y)
1	45

2	45
3	35
4	70
5	50
6	20
7	35
8	60
9	65
10	40

Continuing Table

11	45
12	75
13	65
14	35
15	75
16	40
17	35
18	40
19	50
20	45
21	45
22	40
23	40
24	45
25	25
26	75
27	60
28	65
29	20
30	35
31	20
32	45
33	40
34	70
35	45
36	35
37	35
38	40
39	50

40	50
41	60
42	45
43	50
44	50
45	60
46	60
47	60
48	80

Continuing Table

49	45
50	60
51	45
52	60
53	70
54	60
55	50
56	45
57	50
58	50
59	35
60	50
61	50
62	45
63	50
64	50
65	35
66	60
67	60
68	40
69	45
70	45
71	35
72	40
73	40
74	40
75	35
76	40
77	45

78	45
79	50
80	35
81	40
N = 81	$\Sigma Y = 3,880$

To know the students' level at the test, the writer classifies the data into 6 criteria, namely excellent, good, sufficient, low, very low, and poor as the standard of English Department of IAIN Antasari Banjarmasin. The classification of these criteria can be seen in the table below.

Table 4.3 Classification of Students' Achievement in vocabulary

Score	Frequency	Percentage	Category
80 – 100	8	9.88%	Excellent
70 - < 80	27	33.33%	Good
60 - < 70	19	23.46%	Sufficient
50 - < 60	16	19.75%	Low
40 - < 50	6	7.41%	Very low
0 - < 40	5	6.17%	Poor
Total	N=81	100%	

The table above shows students' achievement in vocabulary. There are 9.88% students who are in excellent level. 33.33% in good level and 23.46% in sufficient level. But there are 19.75% students who are in low level. 7.41% in very low level. and 6.17% in poor level.

Table 4.4 Classification of Students' Achievement in Listening Skill

Score	Frequency	Percentage	Category
80 – 100	1	1. 23%	Excellent
70 - < 80	6	7. 41%	Good
60 - < 70	14	17. 29%	Sufficient
50- < 60	15	18. 52%	Low
40 - < 50	30	37. 03%	Very low
0 - < 40	15	18. 52%	Poor
Total	N=81	100%	

The table above shows students' achievement in listening skill. There are 1. 23% student who are in excellent level. 7. 41% in good level. 17. 29% in sufficient level. But there are 18. 52% students who are in low level. 37. 03% in very low level. and 18. 52% in poor level.

C. Data Analysis

1. The degree of correlation between students' achievement in vocabulary and listening skill.
 - a. From the data above, it can be defined the mean (M) of the students' score by using the formula as follow:

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

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

Where:

X : Students' achievement in vocabulary

Y : Students' achievement in listening skill

N : The number of students

Based on the table score, it can be known that:

$$\sum X : 4.945$$

$$\sum Y : 3.880$$

$$N : 81$$

$$M_x : \frac{4.945}{81} = 61.04$$

$$M_y : \frac{3.880}{81} = 47.90$$

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

Table 4.5 Working Table of Data Analysis

Students' Code Number	X	Y	X	y	xy	x^2	y^2
1	50	45	-11.05	-2.9	32.04	122.10	8.41
2	65	45	3.95	-2.9	-11.45	15.60	8.41
3	70	35	8.95	-12.9	-115.45	80.10	166.41
4	70	70	8.95	22.1	1977.79	80.10	488.41
5	40	50	-21.05	2.1	-44.20	443.10	4.41
6	65	20	3.95	-27.9	-110.20	15.60	778.41
7	55	35	-6.05	-12.9	78.04	36.60	166.41
8	70	60	8.95	12.1	108.29	80.10	146.41
9	85	65	23.95	17.1	409.54	573.60	292.41
10	60	40	-1.05	-7.9	8.29	1.10	62.41
11	70	45	8.95	-2.9	-25.95	80.10	8.41
12	70	75	8.95	27.1	242.54	80.10	734.41
13	70	65	8.95	17.1	153.04	80.10	292.41
14	50	35	-11.05	-12.9	142.54	122.10	166.41
15	70	75	8.95	27.1	242.54	80.10	734.41
16	70	40	8.95	-7.9	-70.70	80.10	62.41
17	55	35	-6.05	-12.9	78.04	36.60	166.41
18	85	40	23.95	-7.9	-189.20	573.60	62.41
19	40	50	-21.05	2.1	-44.20	443.10	4.41
20	70	45	8.95	-2.9	-25.95	80.10	8.41
21	30	45	-31.05	-2.9	90.04	964.10	8.41
22	65	40	3.95	-7.9	-31.20	15.60	62.41
23	65	40	3.95	-7.9	-31.20	15.60	62.41
24	40	45	-21.05	-2.9	61.04	443.10	8.41
25	70	25	8.95	-22.9	-204.95	80.10	524.41
26	70	75	8.95	27.1	242.54	80.10	734.41
27	70	60	8.95	12.1	108.29	80.10	146.41
28	70	65	8.95	17.1	153.04	80.10	292.41
29	75	20	13.95	-27.9	-389.20	194.60	778.41
30	65	35	3.95	-12.9	-50.95	15.60	166.41
31	45	20	-16.05	-27.9	447.79	257.60	778.41

32	70	45	8.95	-2.9	-25.95	80.10	8.41
33	65	40	3.95	-7.9	-31.20	15.60	62.41
34	70	70	8.95	22.1	197.79	80.10	488.41
35	65	45	3.95	-2.9	-11.45	15.60	8.41
36	70	35	8.95	-12.9	-115.45	80.10	166.41
37	60	55	-1.05	7.1	-7.45	1.10	50.41
38	30	40	-31.05	-7.9	245.29	964.10	62.41
39	60	50	-1.05	2.1	-2.20	1.10	4.41
40	65	50	3.95	2.1	8.29	15.60	4.41
41	70	60	8.95	12.1	108.29	80.10	146.41
42	50	45	-11.05	-2.9	32.04	122.10	8.41
43	80	50	18.95	2.1	39.79	359.10	4.41
44	35	50	-26.05	2.1	-54.70	678.60	4.41
45	70	60	8.95	12.1	108.29	80.10	146.41
46	50	60	-11.05	12.1	-133.70	122.10	146.41
47	80	60	18.95	12.1	229.29	359.10	146.41
48	80	80	18.95	32.1	608.29	359.10	1030.41
49	80	45	18.95	-2.9	-54.95	359.10	8.41
50	80	60	18.95	12.1	229.29	359.10	146.41
51	50	45	-11.05	-2.9	32.04	122.10	8.41
52	70	60	8.95	12.1	108.29	80.10	146.41
53	70	70	8.95	22.1	197.79	80.10	488.41
54	70	60	8.95	12.1	108.29	80.10	146.41
55	70	50	8.95	2.1	18.79	80.10	4.41
56	70	45	8.95	-2.9	-25.95	80.10	8.41
57	70	50	8.95	2.1	18.79	80.10	4.41
58	70	50	8.95	2.1	18.79	80.10	4.41
59	40	35	-21.05	-12.9	271.54	443.10	166.41
60	55	50	-6.05	2.1	-12.70	36.60	4.41
61	55	50	-6.05	2.1	-12.70	36.60	4.41
62	60	45	-1.05	-2.9	3.04	1.10	8.41
63	60	50	-1.05	2.1	-2.20	1.10	4.41
64	60	50	-1.05	2.1	-2.20	1.10	4.41
65	60	35	-1.05	-12.9	13.54	1.10	166.41
66	60	60	-1.05	12.1	-12.70	1.10	146.41
67	60	60	-1.05	12.1	-12.70	1.10	146.41
68	50	40	-11.05	-7.9	87.29	122.10	62.41
69	70	45	8.95	-2.9	-25.95	80.10	8.41
70	40	45	-21.05	-2.9	61.04	443.10	8.41
71	15	35	-46.05	-12.9	594.04	2120.60	166.41
72	25	40	-36.05	-7.9	284.79	1299.60	62.41

73	80	40	18.95	-7.9	-149.70	359.10	62.41
74	50	40	-11.05	-7.9	87.29	122.10	62.41
75	55	35	-6.05	-12.9	78.04	36.60	166.41
76	50	40	-11.05	-7.9	87.29	122.10	62.41
77	55	45	-6.05	-2.9	17.54	36.60	8.41
78	55	45	-6.05	-2.9	17.54	36.60	8.41
79	60	50	-1.05	2.1	-2.20	1.10	4.41
80	65	35	3.95	-12.9	-50.95	15.60	166.41
81	50	40	-11.05	-7.9	87.29	122.10	62.41
N:81	4.945	3.880			6483.33	15585.6	12943.21

Where: X: The Score of students' written test

Y: The score of students' listening test

x: X - M_x

y: Y - M_y

Determining the degree of r_{xy} by implementing formula as follow.

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

Where:

r_{xy} : coefficient correlation between correlated variables x and y

$\sum xy$: the amount of multiplication between variable x and y

Σx^2 : derivation of x

Σy^2 : derivation of y

From the working table above, it can be known that:

Σxy : 6. 483.33

Σx^2 : 15. 585.6

Σy^2 : 12. 943.21

$$\begin{aligned} \text{So, } r_{xy} &= \frac{6. 483. 33}{\sqrt{15.585. 6 \cdot 12. 943. 21}} \\ &= \frac{6. 483. 33}{14. 203. 09} \\ &= 0. 456 \end{aligned}$$

To Test Hypothesis

Based on the counting above, r_{xy} is 0. 456. 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 $N = 81$, r table in 5% fault is 0. 217 and r table in 1% fault is 0. 283. It appears that $r_{xy} > 0. 217$ and 0. 283. It means. that the hypothesis null

(H₀) is denied and hypothesis alternative (H_a) is accepted. So, it can be concluded that there is a significant correlation between students' achievement in vocabulary and listening skill.

The correlation is positive and occurs in 0.40 - < 0.60 level. After interpreting by using Standard Classification of Correlation Degree such as suggested by Suharsimi Arikunto, it would be known the level of correlation.

Table 4.6 Standard Classification of Correlation Degree

Coefficient correlation	Category
0.80 – 1.00	Very high
0.60 - < 0.80	High
0.40 - < 0.60	Fair
0.20 < 0.40	Low
0.00 - < 0.20	Very low ¹

Based on the table, it can be stated that the correlation between students' achievement in vocabulary and listening skill is in fair level.

¹ S. Arikunto. *Dasar-Dasar Evaluasi Pendidikan*. Edisi revisi. (Jakarta: Bumi Aksara. 2003). p. 75

