## CHAPTER IV

## RESEARCH FINDING AND DISCUSSION

## A. Research Finding

1. Result of The Test of Instrument

Before the test instrument used in this study, the researcher conducted testing instrument first. The goal is to obtain a good instrument. After testing the instruments by using the formulas as were explained in chapter III. These were the result of the test of instrument:
a. Vocabulary test instrument

Table I
The Test Result of Vocabulary Test Instrument

| No. <br> Item | Criteria |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Validity | Difficulty <br> Level | Discrimination <br> Index | Reliability |
| Q-1 | Valid | Easy | Satisfactory | Reliable |
| Q-2 | Valid | Easy | Satisfactory | Reliable |
| Q-3 | Valid | Easy | Satisfactory | Reliable |
| Q-4 | Valid | Easy | Satisfactory | Reliable |
| Q-5 | Valid | Easy | Satisfactory | Reliable |
| Q-6 | Valid | Easy | Poor | Reliable |
| Q-7 | Valid | Easy | Satisfactory | Reliable |
| Q-8 | Valid | Easy | Satisfactory | Reliable |
| Q-9 | Invalid | Medium | Satisfactory | Unreliable |
| Q-10 | Valid | Medium | Good | Reliable |
| Q-11 | Valid | Easy | Satisfactory | Reliable |
| Q-12 | Valid | Medium | Good | Reliable |
| Q-13 | Valid | Difficult | Good | Reliable |
| Q-14 | Valid | Difficult | Satisfactory | Reliable |
| Q-15 | Valid | Medium | Good | Reliable |


| No. <br> Item | Criteria |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Validity | Difficulty <br> Level | Discrimination <br> Index | Reliability |
| Q-16 | Valid | Difficult | Satisfactory | Reliable |
| Q-17 | Valid | Medium | Good | Reliable |
| Q-18 | Valid | Medium | Good | Reliable |
| Q-19 | Invalid | Medium | Satisfactory | Unreliable |
| Q-20 | Valid | Medium | Satisfactory | Reliable |
| Q-21 | Invalid | Medium | Poor | Unreliable |
| Q-22 | Valid | Easy | Poor | Reliable |
| Q-23 | Valid | Difficult | Excellent | Reliable |
| Q-24 | Valid | Easy | Excellent | Reliable |
| Q-25 | Invalid | Easy | Excellent | Unreliable |
| Q-26 | Valid | Medium | Excellent | Reliable |
| Q-27 | Valid | Easy | Excellent | Reliable |
| Q-28 | Valid | Medium | Excellent | Reliable |
| Q-29 | Valid | Easy | Excellent | Reliable |
| Q-30 | Valid | Medium | Excellent | Reliable |
| Q-31 | Valid | Difficult | Excellent | Reliable |
| Q-32 | Valid | Easy | Excellent | Reliable |
| Q-33 | Valid | Medium | Excellent | Reliable |
| Q-34 | Invalid | Medium | Excellent | Unreliable |
| Q-35 | Valid | Difficult | Excellent | Reliable |

(For the complete calculation can be seen in appendix)
b. Questionnaire instrument

Table II
The Test Result of Questionnaire Test Instrument

| No. Item | Criteria |  |
| :---: | :---: | :---: |
|  | Validity | Reliability |
| Q-1 | Valid | Reliable |
| Q-2 | Valid | Reliable |
| Q-3 | Valid | Reliable |
| Q-4 | Valid | Reliable |
| Q-5 | Valid | Reliable |
| Q-6 | Valid | Reliable |
| Q-7 | Valid | Reliable |
| Q-8 | Valid | Reliable |
| Q-9 | Valid | Reliable |
| Q-10 | Valid | Reliable |
| Q-11 | Valid | Reliable |
| Q-12 | Valid | Reliable |
| Q-13 | Valid | Reliable |
| Q-14 | Valid | Reliable |
| Q-15 | Valid | Reliable |
| Q-16 | Valid | Reliable |
| Q-17 | Valid | Reliable |
| Q-18 | Valid | Reliable |
| Q-19 | Valid | Reliable |
| Q-20 | Valid | Reliable |
| Q-21 | Valid | Reliable |
| Q-22 | Valid | Reliable |
| Q-23 | Valid | Reliable |
| Q-24 | Valid | Reliable |


| No. Item | Criteria |  |
| :---: | :---: | :---: |
|  | Validity | Reliability |
| Q-25 | Valid | Reliable |

(For the complete calculation can be seen in appendix)
2. Result of The Research

This research consist of three phases of analysis namely introduction analysis, hypothesis analysis and final analysis.

1. Introduction Analysis
a. Students' frequency of watching English Movies

This study tried to describe the frequency of students watch movie. To gather the data, the researcher used questionnaire given to the participant at Eleventh grade of Language study program of MA NU Banat Kudus. The score of questionnaire were listed by summing up the score of students' answer. To make easy in scoring the questionnaire, the all alternative options of frequency have rank as follow:
Always/strongly agree (A) $=5$
Often/ agree (B) =
Sometimes/ neutral (C) $=3$
Seldom/ disagree (D) $=2$
Never/ strongly agree (E) =1

Table III
The Result of Students' Frequency of Watching English Movies
Questionnaire

| No | Answer |  |  |  |  |  | Score |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C | D | E | A | B | C | D | E |  |
| R-1 | 4 | 3 | 7 | 4 | 6 | 20 | 12 | 21 | 8 | 6 | 67 |
| R-2 | 8 | 6 | 10 | 1 | 0 | 40 | 24 | 30 | 2 | 0 | 96 |
| R-3 | 3 | 10 | 7 | 2 | 3 | 15 | 40 | 21 | 4 | 3 | 83 |


| No | Answer |  |  |  |  |  |  |  |  | Score |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C | D | E | A | B | C | D | E |  |  |  |  |  |
| R-4 | 0 | 9 | 10 | 4 | 2 | 0 | 36 | 30 | 8 | 2 | 76 |  |  |  |  |
| R-5 | 12 | 11 | 2 | 0 | 0 | 60 | 44 | 6 | 0 | 0 | 110 |  |  |  |  |
| R-6 | 0 | 1 | 10 | 8 | 6 | 0 | 4 | 30 | 16 | 6 | 56 |  |  |  |  |
| R-7 | 6 | 11 | 5 | 2 | 0 | 30 | 44 | 15 | 4 | 0 | 93 |  |  |  |  |
| R-8 | 5 | 6 | 12 | 11 | 1 | 25 | 24 | 36 | 22 | 1 | 108 |  |  |  |  |
| R-9 | 1 | 7 | 14 | 2 | 1 | 5 | 28 | 42 | 4 | 1 | 80 |  |  |  |  |
| R-10 | 2 | 9 | 8 | 4 | 2 | 10 | 36 | 24 | 8 | 2 | 80 |  |  |  |  |
| R-11 | 4 | 9 | 4 | 7 | 1 | 20 | 36 | 12 | 14 | 1 | 83 |  |  |  |  |
| R-12 | 8 | 14 | 3 | 0 | 0 | 40 | 56 | 9 | 0 | 0 | 105 |  |  |  |  |
| R-13 | 0 | 10 | 11 | 3 | 1 | 0 | 40 | 33 | 6 | 1 | 80 |  |  |  |  |
| R-14 | 8 | 12 | 4 | 1 | 0 | 40 | 48 | 12 | 2 | 0 | 102 |  |  |  |  |
| R-15 | 3 | 7 | 10 | 4 | 1 | 15 | 28 | 30 | 8 | 1 | 82 |  |  |  |  |
| R-16 | 1 | 11 | 13 | 0 | 0 | 5 | 44 | 39 | 0 | 0 | 88 |  |  |  |  |
| R-17 | 0 | 7 | 12 | 5 | 1 | 0 | 28 | 36 | 10 | 1 | 75 |  |  |  |  |
| R-18 | 1 | 7 | 14 | 3 | 0 | 5 | 28 | 42 | 6 | 0 | 81 |  |  |  |  |
| R-19 | 2 | 7 | 12 | 2 | 2 | 10 | 28 | 36 | 4 | 2 | 80 |  |  |  |  |
| R-20 | 2 | 5 | 13 | 4 | 1 | 10 | 20 | 39 | 8 | 1 | 78 |  |  |  |  |
| R-21 | 3 | 4 | 13 | 3 | 2 | 15 | 16 | 39 | 6 | 2 | 78 |  |  |  |  |
| R-22 | 1 | 4 | 12 | 7 | 1 | 5 | 16 | 36 | 14 | 1 | 72 |  |  |  |  |
| R-23 | 0 | 16 | 8 | 0 | 1 | 0 | 64 | 24 | 0 | 1 | 89 |  |  |  |  |
| R-24 | 6 | 14 | 5 | 0 | 0 | 30 | 56 | 15 | 0 | 0 | 101 |  |  |  |  |
| R-25 | 1 | 4 | 9 | 7 | 4 | 5 | 16 | 27 | 14 | 4 | 66 |  |  |  |  |
| R-26 | 6 | 9 | 10 | 0 | 0 | 30 | 36 | 30 | 0 | 0 | 96 |  |  |  |  |
| R-27 | 1 | 4 | 16 | 3 | 1 | 5 | 16 | 48 | 6 | 1 | 76 |  |  |  |  |
| R-28 | 7 | 15 | 3 | 0 | 0 | 35 | 60 | 9 | 0 | 0 | 104 |  |  |  |  |
| R-29 | 2 | 6 | 12 | 2 | 3 | 10 | 24 | 36 | 4 | 3 | 77 |  |  |  |  |
| R-30 | 2 | 12 | 10 | 0 | 1 | 10 | 48 | 30 | 0 | 1 | 89 |  |  |  |  |
| R-31 | 0 | 3 | 3 | 15 | 4 | 0 | 12 | 9 | 30 | 4 | 55 |  |  |  |  |
| R-32 | 8 | 10 | 7 | 0 | 0 | 40 | 40 | 21 | 0 | 0 | 101 |  |  |  |  |
| R-33 | 0 | 2 | 13 | 5 | 5 | 0 | 8 | 39 | 10 | 5 | 62 |  |  |  |  |
| R-34 | 0 | 9 | 16 | 4 | 2 | 0 | 36 | 48 | 8 | 2 | 94 |  |  |  |  |
| R-35 | 2 | 8 | 11 | 4 | 0 | 10 | 32 | 33 | 8 | 0 | 83 |  |  |  |  |
| R-36 | 7 | 9 | 7 | 1 | 1 | 35 | 36 | 21 | 2 | 1 | 95 |  |  |  |  |
| R-37 | 0 | 11 | 8 | 5 | 1 | 0 | 44 | 24 | 10 | 1 | 79 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| No | Answer |  |  |  |  | Score |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C | D | E | A | B | C | D | E |  |
| R-38 | 4 | 11 | 9 | 1 | 0 | 20 | 44 | 27 | 2 | 0 | 93 |
| R-39 | 2 | 4 | 12 | 5 | 2 | 10 | 16 | 36 | 10 | 2 | 74 |
| R-40 | 0 | 9 | 13 | 2 | 1 | 0 | 36 | 39 | 4 | 1 | 80 |
| R-41 | 0 | 9 | 10 | 6 | 0 | 0 | 36 | 30 | 12 | 0 | 78 |
| R-42 | 2 | 9 | 1 | 10 | 3 | 10 | 36 | 3 | 20 | 3 | 72 |
| R-43 | 4 | 11 | 6 | 1 | 3 | 20 | 44 | 18 | 2 | 3 | 87 |
| R-44 | 4 | 12 | 6 | 2 | 1 | 20 | 48 | 18 | 4 | 1 | 91 |
| R-45 | 0 | 10 | 11 | 2 | 0 | 0 | 40 | 33 | 4 | 0 | 77 |

Based on the table above, the next step was looking for the mean and the students' frequency of watching English Movies (X), there were as followed:

1) Find out the SUM of interval

$$
\begin{aligned}
\mathrm{K} & =1+3.3 \log n \\
& =1+3.3 \log 45 \\
& =1+3.3(1.6532) \\
& =1+5.45556 \\
& =6.45556 \\
& =6
\end{aligned}
$$

2) Find out the range

R $=\mathrm{H}-\mathrm{L}$
Where:
$\mathrm{R}=$ Range
$\mathrm{H}=$ Highest value
L= Lowest value
From the data, it was known that:

$$
\begin{aligned}
\mathrm{H} & =110 \\
\mathrm{R} & =\mathrm{H}-\mathrm{L} \\
& =110-55 \\
& =55
\end{aligned}
$$

3) Determining class interval

$$
\begin{aligned}
\mathrm{I} & =\frac{\text { Range }}{\text { Sum of Interval }} \\
& =\mathrm{R} / \mathrm{K} \\
& =55 / 6 \\
& =9.16666 \\
& =9
\end{aligned}
$$

So, class interval was 9 and the SUM of interval was 6
4) Look for Mean and Standard deviation

Table IV
Distribution of Students' Frequency of Watching English Movies

| Interval | $F \mathrm{i}$ | $x \mathrm{i}$ | $F i x \mathrm{i}$ | $x \mathrm{i}-\bar{X}$ | $(x \mathrm{i}-\bar{X})^{2}$ | $f i(x \mathrm{i}-\bar{X})^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $102-110$ | 4 | 106 | 424 | 23.2 | 538.2 | 2152.96 |
| $93-101$ | 7 | 97 | 679 | 14.2 | 201.64 | 1411.48 |
| $84-92$ | 6 | 88 | 528 | 5.2 | 27.04 | 162.24 |
| $75-83$ | 20 | 79 | 1580 | -3.8 | 14.44 | 288.8 |
| $66-74$ | 5 | 70 | 350 | -12.8 | 163.84 | 819.2 |
| $57-65$ | 1 | 61 | 61 | -21.8 | 475.24 | 475.24 |
| $48-56$ | 2 | 52 | 104 | -30.8 | 948.64 | 1897.28 |
| Total | 45 | 553 | 3726 | -26.6 | 2369.08 | 7207.2 |

$$
\begin{array}{rlrl}
\mathrm{M} & =\frac{\sum f i x \mathrm{i}}{N} & \mathrm{SD}=\sqrt{\frac{\sum f i(x \mathrm{i}-\bar{X})^{2}}{(n-1)}} \\
& =\frac{3726}{45} & & =\sqrt{\frac{7207.2}{(45-1)}}=\sqrt{\frac{7207.2}{44}} \\
& =82.8 & & =12.79844
\end{array}
$$

5) Determining the category of students' frequency of watching English movies

Table V
The Category of Students' Frequency of Watching English Movies

| Class Interval | Category |
| :---: | :---: |
| $>105$ | Very High |
| $85-104$ | High |
| $65-84$ | Medium |
| $45-64$ | Low |
| $25-44$ | Very Low |

Based on the table above, it was known that the mean from students' frequency of watching English movies at Eleventh grade on Language Study program of MA NU Banat Kudus was 83. It meant that the category of students' frequency of watching English movies was medium. It was on interval $65-84$.
b. Students' Vocabulary power

The data of this variable taken from the result of vocabulary test that was given by the researcher to the students at Eleventh grade of Language study program of MA NU Banat Kudus in the academic year of 2012/2013. The result was as followed:

Table VI
The score of Students' Vocabulary Test

| No | Score | No | Score |
| :---: | :---: | :---: | :---: |
| R-1 | 50 | R-26 | 83 |
| R-2 | 73 | R-27 | 63 |
| R-3 | 67 | R-28 | 90 |
| R-4 | 87 | R-29 | 63 |
| R-5 | 90 | R-30 | 80 |
| R-6 | 50 | R-31 | 50 |


| No | Score | No | Score |
| :---: | :---: | :---: | :---: |
| R-7 | 77 | R-32 | 87 |
| R-8 | 87 | R-33 | 53 |
| R-9 | 73 | R-34 | 80 |
| R-10 | 77 | R-35 | 87 |
| R-11 | 70 | R-36 | 87 |
| R-12 | 90 | R-37 | 70 |
| R-13 | 70 | R-38 | 67 |
| R-14 | 80 | R-39 | 63 |
| R-15 | 77 | R-40 | 83 |
| R-16 | 80 | R-41 | 60 |
| R-17 | 60 | R-42 | 67 |
| R-18 | 73 | R-43 | 83 |
| R-19 | 70 | R-44 | 87 |
| R-20 | 77 | $R-45$ | 60 |
| R-21 | 63 |  |  |
| R-22 | 60 |  |  |
| R-23 | 67 |  |  |
| R-24 | 80 |  |  |
| R-25 | 43 |  |  |
|  |  |  |  |

Based on the table above, the next step was looking for the mean and the students' frequency of watching English Movies (X), there were as followed:

1) Find out the SUM of interval

$$
\begin{aligned}
\mathrm{K} & =1+3.3 \log n \\
& =1+3.3 \log 45 \\
& =1+3.3(1.6532) \\
& =1+5.45556 \\
& =6.45556=6
\end{aligned}
$$

2) Find out the range

R $=\mathrm{H}-\mathrm{L}$
Where:
$\mathrm{R}=$ Range
H= Highest value
$\mathrm{L}=$ Lowest value
From the data, it was known that:

$$
\begin{aligned}
\mathrm{H} & =90 \\
\mathrm{R} & =\mathrm{H}-\mathrm{L} \\
& =90-43 \\
& =47
\end{aligned}
$$

3) Determining class interval

$$
\begin{aligned}
\mathrm{I} & =\frac{\text { Range }}{\text { Sum of Interval }} \\
& =\mathrm{R} / \mathrm{K} \\
& =47 / 6 \\
& =7.83333 \\
& =7
\end{aligned}
$$

So, class interval was 7 and the SUM of interval was 6
4) Look for Mean and Standard deviation

## Table VII

Distribution Frequency of Students' Vocabulary Power

| Interval | $f \mathrm{i}$ | $x \mathrm{i}$ | $f i x \mathrm{i}$ | $x \mathrm{i}-\bar{X}$ | $(x \mathrm{i}-\bar{X})^{2}$ | $f \mathrm{i}(x \mathrm{i}-\bar{X})^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $84-90$ | 8 | 87 | 696 | 14.93 | 222.9049 | 1783.239 |
| $77-83$ | 9 | 80 | 720 | 7.93 | 62.8849 | 565.9641 |
| $70-76$ | 11 | 73 | 803 | 0.93 | 0.871105 | 9.5139 |
| $63-69$ | 8 | 66 | 528 | -6.07 | 36.8449 | 294.7592 |
| $56-62$ | 5 | 59 | 295 | -13.07 | 170.8249 | 854.1245 |
| $49-55$ | 3 | 52 | 156 | -20.07 | 402.8049 | 1208.415 |
| $42-48$ | 1 | 45 | 45 | -27.07 | 732.7849 | 732.7849 |
| Total | 45 | 462 | 3243 | -42.49 | 1629.914 | 5448.801 |

$$
\begin{array}{rlrl}
\mathrm{M} & =\frac{\sum f i x \mathrm{i}}{N} & \mathrm{SD} & =\sqrt{\frac{\sum f i(x \mathrm{i}-\bar{X})^{2}}{(n-1)}} \\
& =\frac{3243}{45} & & =\sqrt{\frac{5448.801}{(45-1)}}=\sqrt{\frac{5448.801}{44}} \\
& =72.06667 & & =18.65281 \\
& =72.07 &
\end{array}
$$

5) Determining the category of students' frequency of watching English movies

## Table VIII

The Category of Students' Vocabulary power

| Class Interval | Category |
| :---: | :---: |
| $>88$ | Very High |
| $77-87$ | High |
| $66-75$ | Medium |
| $55-65$ | Low |
| $<54$ | Very Low |

Based on the table above, it was known that the mean from students' Vocabulary power at Eleventh grade of Language Study program of MA NU Banat Kudus was 72. It meant that the category of students' Vocabulary power was medium. It was on interval 66-75.

## 2. Hypothesis Analysis

This analysis was used to prove that the hypothesis was accepted or rejected. In this research was there was influence of the frequency of watching English movies to students' vocabulary power at eleventh grade of Language study program of MA NU Banat Kudus in the academic year of 2012/2013.

To prove that hypothesis, the researcher used one predictor regression formula with looking for the correlation between predictor (X) and criterion ( Y ) by using technique of correlation product moment technique, with formula:

$$
r_{x y}=\frac{\left(\sum_{x y}\right)}{\sqrt{\left(\sum_{x^{2}}\right)\left(\sum_{y^{2}}\right)}}
$$

Where:

$$
\begin{aligned}
& \sum_{x y}=\sum X Y-\frac{\left(\sum X\right)\left(\sum Y\right)}{N} \\
& \sum_{x^{2}}=\sum X^{2}-\frac{\left(\sum X\right)^{2}}{N} \text { and } \\
& \sum_{y^{2}}=\sum Y^{2}-\frac{\left(\sum Y\right)^{2}}{N}
\end{aligned}
$$

Table IX
The Coefficient Correlation between Variable X (Students'
Frequency of Watching English Movies) and Variable Y (Students'
Vocabulary power)

| No | $X$ | $Y$ | $X^{2}$ | $Y^{2}$ | $X Y$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| R-1 | 67 | 50 | 4489 | 2500 | 3350 |
| R-2 | 96 | 73 | 9216 | 5329 | 7008 |
| R-3 | 83 | 67 | 6889 | 4489 | 5561 |
| R-4 | 76 | 87 | 5776 | 7569 | 6612 |
| R-5 | 110 | 90 | 12100 | 8100 | 9900 |
| R-6 | 56 | 50 | 3136 | 2500 | 2800 |
| R-7 | 93 | 77 | 8649 | 5929 | 7161 |
| R-8 | 108 | 87 | 11664 | 7569 | 9396 |
| R-9 | 80 | 73 | 6400 | 5329 | 5840 |
| R-10 | 80 | 77 | 6400 | 5929 | 6160 |
| R-11 | 83 | 70 | 6889 | 4900 | 5810 |
| R-12 | 105 | 90 | 11025 | 8100 | 9450 |
| R-13 | 80 | 70 | 6400 | 4900 | 5600 |
| R-14 | 102 | 80 | 10404 | 6400 | 8160 |


| No | $X$ | $Y$ | $X^{2}$ | $Y^{2}$ | $X Y$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| R-15 | 82 | 77 | 6724 | 5929 | 6314 |
| R-16 | 88 | 80 | 7744 | 6400 | 7040 |
| R-17 | 75 | 60 | 5625 | 3600 | 4500 |
| R-18 | 81 | 73 | 6561 | 5329 | 5913 |
| R-19 | 80 | 70 | 6400 | 4900 | 5600 |
| R-20 | 78 | 77 | 6084 | 5929 | 6006 |
| R-21 | 78 | 63 | 6084 | 3969 | 4914 |
| R-22 | 72 | 60 | 5184 | 3600 | 4320 |
| R-23 | 89 | 67 | 7921 | 4489 | 5963 |
| R-24 | 101 | 80 | 10201 | 6400 | 8080 |
| R-25 | 66 | 43 | 4356 | 1849 | 2838 |
| R-26 | 96 | 83 | 9216 | 6889 | 7968 |
| R-27 | 76 | 63 | 5776 | 3969 | 4788 |
| R-28 | 104 | 90 | 10816 | 8100 | 9360 |
| R-29 | 77 | 63 | 5929 | 3969 | 4788 |
| R-30 | 89 | 80 | 7921 | 6400 | 7120 |
| R-31 | 55 | 50 | 3025 | 2500 | 2750 |
| R-32 | 101 | 87 | 10201 | 7569 | 8787 |
| R-33 | 62 | 53 | 3844 | 2809 | 3286 |
| R-34 | 94 | 80 | 8836 | 6400 | 7520 |
| R-35 | 83 | 87 | 6889 | 7569 | 7221 |
| R-36 | 95 | 87 | 9025 | 7569 | 8265 |
| R-37 | 79 | 70 | 6241 | 4900 | 5530 |
| R-38 | 93 | 67 | 8649 | 4489 | 6231 |
| R-39 | 74 | 63 | 5476 | 3969 | 4662 |
| R-40 | 80 | 83 | 6400 | 6889 | 6640 |
| R-41 | 78 | 60 | 6084 | 3600 | 4680 |
| R-42 | 72 | 67 | 5184 | 4489 | 4824 |
| R-43 | 87 | 83 | 7569 | 6889 | 7221 |
| R-44 | 91 | 87 | 8281 | 7569 | 7917 |
| R-45 | 77 | 60 | 5929 | 3600 | 4620 |
| Total | 3772 | 3254 | 323612 | 242074 | 278537 |

Based on the table above, it was known that the result of coefficient correlation value was:
$\mathrm{N} \quad: 45 \quad \sum X^{2}: 323612$

| $\sum X$ | $: 3772$ | $\sum Y^{2}: 242074$ |
| :--- | :--- | :--- | :--- |
| $\sum Y$ | $: 3254$ | $\sum X Y: 278537$ |

To examine the hypothesis, the steps were as followed:
a. Looking for the value of correlation between variable X and variable Y with using the formula:

$$
r_{x y}=\frac{\left(\sum_{x y}\right)}{\sqrt{\left(\sum_{x^{2}}\right)\left(\sum_{y^{2}}\right)}}
$$

Where:

$$
\begin{aligned}
\sum_{x y} & =\sum X Y-\frac{\left(\sum X\right)\left(\sum Y\right)}{N} \\
& =278537-\frac{(3772)(3254)}{45} \\
& =278537-\frac{12274088}{45} \\
& =278537-272757.5 \\
& =5779.489 \\
\sum_{x^{2}} & =\sum X^{2}-\frac{(3772)^{2}}{45} \\
& =323612-\frac{14227984}{45} \\
& =323612-316177.4 \\
& =7434.578
\end{aligned}
$$

and

$$
\begin{aligned}
\sum_{y^{2}} & =\sum Y^{2}-\frac{\left(\sum Y\right)^{2}}{N} \\
& =242074-\frac{(3254)^{2}}{45} \\
& =242074-\frac{10588516}{45} \\
& =242074-235300.4 \\
& =6773.644
\end{aligned}
$$

The calculation above then included in the product moment formula as followed:

$$
\begin{aligned}
r_{x y} & =\frac{\left(\sum_{x y}\right)}{\sqrt{\left(\sum_{x^{2}}\right)\left(\sum_{y^{2}}\right)}} \\
& =\frac{(5779.489)}{\sqrt{(7434.578)(6773.644)}} \\
& =\frac{(5779.489)}{\sqrt{50359185}} \\
& =\frac{5779.489}{7096.421} \\
& =0.814423 \\
& =0.814
\end{aligned}
$$

Based on the calculation above, it was known that the coefficient correlation between variable X and variable Y was 0 . 814. So the determination of index correlation is $r^{2}(0.814)^{2}=0$. 663. It means that the influence of variable X (the frequency of watching English movies) to variable Y (students' vocabulary power) is $66.3 \%$. While, the rest of variable Y ( $33.7 \%$ ) is influenced by other factors which is not researched in this research.
b. Examining whether there was any significant correlation or not by consulting the result of $r_{x y}$ with table value $\left(\mathrm{r}_{\mathrm{t}}\right)$.

After doing the correlation test with product moment correlation formula, the result was consulted with $r_{t}$ (table) on the significant level 5\%.

1) It was significant if $r_{x y}>r_{t} 5 \%$, hypothesis was accepted.
2) It was not significant if $r_{x y}<r_{t} 5 \%$, hypothesis was rejected.

It was known from the calculation above that $\mathrm{r}_{x y}=0.814>\mathrm{r}_{\text {table }}$ 0. 294, it meant there was a positive correlation between Students' frequency of watching English movies and their Vocabulary power.

From the result above, the researcher will interpret that category of coefficient correlation based on the following:
$0,80-1,000$ means very high correlation
$0,60-0,799$ means high correlation
$0,40-0,599$ means enough correlation
$0,20-0,399$ means low correlation
$0,00-0,199$ means very low correlation
Based on the calculation above the researcher concluded that the correlation between variable X and variable Y had a positive correlation with the score correlation 0.814 and it was categorized as very high correlation.
c. Find the regression similarity with the formula:

$$
Y=a X+K
$$

Where:
Y = Criterion
$X \quad=$ Predictor
a = the numeral of predictor coefficient
K = the numeral of constant

To look for the score of a and K , the researcher used the formula as followed:

$$
\begin{aligned}
& \mathrm{y}=\mathrm{ax} \text { or } \mathrm{Y}-\bar{Y}=\mathrm{a}(\mathrm{X}-\bar{X}) \\
& \qquad \text { Where, } \mathrm{y}=\mathrm{Y}-\bar{Y}, \mathrm{x}=\mathrm{X}-\bar{Y}, \text { and } \mathrm{a}=\frac{\sum_{x y}}{\sum_{x^{2}}}
\end{aligned}
$$

From the data, it was known that:

$$
\sum_{x y} \quad=5779.489
$$

$$
\sum_{x^{2}}=7434.578
$$

$$
\sum_{y^{2}} \quad=6773.644
$$

Where, a $=\frac{\sum_{x y}}{\sum_{x^{2}}}$

$$
\begin{aligned}
& =\frac{5779.489}{7434.578} \\
& =0.77738
\end{aligned}
$$

$$
\text { So, } y \quad=0.77738 x
$$

From the data which was collected, it could be looked for:

$$
\begin{array}{ll}
\bar{Y} & =\frac{\sum Y}{N}=\frac{3254}{45}=72.31111 \\
\bar{X} & =\frac{\sum X}{N}=\frac{3772}{45}=83.82222
\end{array}
$$

So, the regression similarity was:

$$
\mathrm{y}=\mathrm{ax} \text { or } \mathrm{Y}-\bar{Y}=\mathrm{a}(\mathrm{X}-\bar{X})
$$

It could be done as followed:
$\mathrm{Y}-72.31111=0.77738(\mathrm{X}-83.82222)$
$\mathrm{Y}-72.31111=0.77738 \mathrm{X}-83.82222$

$$
\begin{array}{ll}
\mathrm{Y} & =0.77738 \mathrm{X}-83.82222+72.31111 \\
\mathrm{Y} & =0.77738 \mathrm{X}+7.1493926164
\end{array}
$$

From the calculation above, the regression similarity was:

$$
\mathrm{Y}=0.77738 \mathrm{X}+7.1493926164
$$

From the regression similarity, it can be predicted if variable X increase 1 value, so variable Y will increase 0.777 values.
d. Variant analysis of regression line

$$
\begin{aligned}
\mathrm{JK}_{\text {reg }} & =\frac{\left(\sum_{x y}\right)^{2}}{\sum_{x^{2}}} \\
& =\frac{(5779.489)^{2}}{7434.578} \\
& =\frac{33402493}{7434.578} \\
& =4492.857 \\
& =\sum_{y^{2}}-\frac{\left(\sum_{x y}\right)^{2}}{\sum_{x^{2}}} \\
\mathrm{JK}_{\text {res }} \quad & 6773.644-4492.857 \\
& =2280.787 \\
& =1 \\
\mathrm{db}_{\text {reg }} & =\mathrm{N}-2 \\
\mathrm{db}_{\text {res }} & =45-2=43
\end{aligned}
$$

$$
\begin{aligned}
& \mathrm{RK}_{\text {reg }}=\frac{\mathrm{J} \mathrm{~K}_{\text {reg }}}{d b_{\text {reg }}} \\
&=\frac{4492.857}{1} \\
&=4492.857 \\
& R K_{\text {res }}=\frac{\mathrm{JK}_{\text {res }}}{d b_{\text {res }}} \\
&=\frac{2280.787}{43} \\
&=53.04156 \\
& J K_{\text {total }}=\sum_{y^{2}} \\
&=6773.644 \\
& F_{\text {reg }}=\frac{\mathrm{RK}}{\text { reg }} \\
& R K_{\text {res }} \\
&=\frac{4492.857}{53.04156} \\
&=84.7045 \\
&=84.70
\end{aligned}
$$

To know the result of the regression analysis computation above, it could be seen on the summary of regression analysis table as followed:

## Table X

The Summary of Regression Analysis

| Variant Resource | db | JK | RK | $\mathrm{F}_{\text {reg }}$ | $\mathrm{F}_{\text {table }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 0.05 |
| Regression | 1 | 4492.857 | 4492.857 | 84.70 | 4. 07 |
| Residual | 43 | 2280.787 | 53. 04155814 |  |  |
| Total | 44 | 6773.644 |  |  |  |

3. Final analysis

After knowing the regression analysis, the next step was consulting the result with F table, on the significant level $5 \%$. From the hypothesis test above, it was known that F reg $84.70>\mathrm{F}_{\text {table }} 4$. 07, it meant the
hypothesis was accepted. So, there was positive influence of students' frequency of watching English movies to their vocabulary power.

## B. Discussion

Based on the regression analysis above, it could be proved that the influence of students' frequency of watching English movies to their vocabulary power in MA NU Banat showed the significant result in 5\% significance. Thus, hypothesis was accepted.

From the coefficient test above could be known that $\mathrm{r}_{x y} 0.814>\mathrm{r}_{\text {table }}$ 0. 294, it meant significant. So, there was significant influence of students' frequency of watching English movies to their Vocabulary power. The higher frequencies of students watch English movies, the higher students' vocabulary power.

There were some reasons why frequencies of students watch English movies could influence their vocabulary power.

1. When students have seen an object or an action in a movie, their desire to know the label (word) may be increased. When the word is encountered, it is learned very quickly.
2. Movie can tell expert's voice while watching actors / actress' appearance, it help students to catch the meaning of the vocabularies.
3. Movie gives students lots of correct English vocabulary into their head, so they can imitate them and make their own sentences.
4. There are many media that presented English movies, so it might facilitate students to learn vocabulary independently every time.

Although students' frequency of watching English movies had a positive influence to their vocabulary power, it is not the only factor affecting students' vocabulary power. It can be seen from the great of influence which does not reach $100 \%$. There were some reasons why frequency of students watch English movies could not influence their vocabulary power.

1. Students have less motivation in learning English.
2. Students just use English movie as an entertainment medium, so they just focus on the story of the movie.
3. It really has relation with students' listening skill because a big problem of watching English movies that is they are more difficult to know than books. If students don't know the meaning of a word in a book, they can simply to find out in a dictionary; because the word is written there (they know its spelling). With a movie, they sometimes hear something, but they don't know what it is. Sometimes they don't even know if they've heard one word or two.
