CHAPTER IV

DATA PRESENTATION AND DATA ANALYSIS

A. The Description of the Data

The data described were based on the research that had been conducted at Islamic Senior High School 2 Bengkalis. This chapter describes the data of the comparison of vocabulary mastery in descriptive text between male and female students. Two variables were involved in this research; the first was students' gender (male and female) symbolized by "X", and the second was the students' vocabulary mastery in descriptive text symbolized by "Y". Students' vocabulary mastery in descriptive text as the dependent variable was investigated by using test. 28 items of multiple choice questions were used to measure the students' vocabulary mastery in descriptive text.

B. The Data Presentation

1. Male Students' Vocabulary Mastery in Descriptive Text

In acquiring the data of male students' vocabulary mastery, the researcher took from the result of the students' test. It can be seen in the following table.

Table. IV.1
The Score Recapitulation of Male Students' Vocabulary Mastery in Descriptive Text

No.	Students	Noun	Verb	Adjective	Adverb	Score	Inverted Score
1	Student 1	1	3	3	3	10	36
2	Student 2	1	3	3	1	8	29
3	Student 3	2	4	2	1	9	32
4	Student 4	4	4	7	4	19	68
5	Student 5	5	4	6	4	19	68
6	Student 6	2	3	2	2	9	32
7	Student 7	4	4	4	4	16	57
8	Student 8	3	0	1	2	6	21
9	Student 9	1	3	4	2	10	36
10	Student 10	2	3	2	2	9	32
11	Student 11	2	3	2	2	9	32
12	Student 12	3	4	7	4	18	64
13	Student 13	4	4	6	5	19	68
14	Student 14	3	5	5	3	16	57
15	Student 15	2	4	5	2	13	46
16	Student 16	1	2	6	2	11	39
17	Student 17	5	4	6	4	19	68
18	Student 18	4	2	3	3	12	43
19	Student 19	4	4	5	3	16	57
20	Student 20	4	3	4	3	14	50
21	Student 21	5	4	6	4	19	68
22	Student 22	1	4	2	2	9	32
Total							**1036**
Mean							**47**

From the table IV.1 above, there were 22 respondents. The calculation of total test of students score was 1036. The mean of students' test score was 47. The frequency distribution of male students' vocabulary mastery in descriptive text score was obtained by using SPSS 23 as follows:

Table IV.2
Descriptive Statistics of Male Students' Vocabulary Mastery in Descriptive Text

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	21.00	1	4.5	4.5	4.5
	29.00	1	4.5	4.5	9.1
	32.00	5	22.7	22.7	31.8
	36.00	2	9.1	9.1	40.9
	39.00	1	4.5	4.5	45.5
	43.00	1	4.5	4.5	50.0
	46.00	1	4.5	4.5	54.5
	50.00	1	4.5	4.5	59.1
	57.00	3	13.6	13.6	72.7
	64.00	1	4.5	4.5	77.3
	68.00	5	22.7	22.7	100.0
	Total	22	100.0	100.0	

Based on the table IV.2 above, it can be seen the frequency interval of 21 was 1 student (4.5%), the frequency interval of 29 was 1 student (4.5%), the frequency interval of 32 was 5 students (22.7%), the frequency interval of 33 was 2 students (9.1%), the frequency interval of 39 was 1 student (4.5%), the frequency interval of 43 was 1 student (4.5%), the frequency interval of 46 was 1 student (4.5%), the frequency interval of 50 was 1 student (4.5%), the frequency interval of 57 was 3 students (13.6%), the frequency interval of 64 was 1 student (4.5%), and the frequency interval of 68 was 5 students (22.7%).

2. Female Students' Vocabulary Mastery in Descriptive Text

In getting the data of female students' vocabulary mastery, the researcher took from the result of the students' test. It can be seen in the following table:

Table IV.3
The Score Recapitulation of Female Students' Vocabulary Mastery in Descriptive Text

No.	Students	Noun	Verb	Adjective	Adverb	Score	Inverted Score
1	Student 1	3	5	5	3	16	57
2	Student 2	4	2	4	3	13	46
3	Student 3	3	3	4	5	15	54
4	Student 4	3	5	5	2	15	54
5	Student 5	5	5	6	3	19	68
6	Student 6	4	5	4	2	15	54
7	Student 7	3	4	6	3	16	57
8	Student 8	4	5	6	4	19	68
9	Student 9	4	4	6	3	17	61
10	Student 10	4	5	4	4	17	61
11	Student 11	1	1	6	2	10	36
12	Student 12	3	6	5	2	16	57
13	Student 13	4	3	5	0	12	43
14	Student 14	5	5	7	4	21	75
15	Student 15	4	5	4	4	17	61
16	Student 16	4	3	2	2	11	39
17	Student 17	4	4	7	4	19	68
18	Student 18	4	4	7	4	19	68
19	Student 19	4	4	7	4	19	68
20	Student 20	4	4	7	5	20	71
21	Student 21	4	4	7	4	19	68
22	Student 22	1	2	3	3	9	32
Total							**1264**
Mean							**57**

From the table IV.3 above, there were 22 respondents. The calculation of total test of students score was 1246. The mean of students' test score was 57. The frequency distribution of female students' vocabulary mastery in descriptive text score was obtained by using SPSS 23 as follows:

Table IV.4
Descriptive Statistics of Female Students' Vocabulary Mastery in Descriptive Text

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	32.00	1	4.5	4.5	4.5
	36.00	1	4.5	4.5	9.1
	39.00	1	4.5	4.5	13.6
	43.00	1	4.5	4.5	18.2
	46.00	1	4.5	4.5	22.7
	54.00	3	13.6	13.6	36.4
	57.00	3	13.6	13.6	50.0
	61.00	3	13.6	13.6	63.6
	68.00	6	27.3	27.3	90.9
	71.00	1	4.5	4.5	95.5
	75.00	1	4.5	4.5	100.0
	Total	22	100.0	100.0	

Based on the table IV.4 above, it can be seen the frequency interval of 32 was 1 student (4.5%), the frequency interval of 36 was 1 student (4.5%), the frequency interval of 39 was 1 student (4.5%), the frequency interval of 43 was 1 student (4.5%), the frequency interval of 46 was 1 student (4.5%), the frequency interval of 54 was 3 students (13.6%), the frequency interval of 57 was 3 students (13.6%), the frequency interval of 61 was 3 students (13.6%), the frequency interval of 68 was 6 students (27.3%), the frequency interval of 71 was 1 student (4.5%), and frequency interval of 75 was 1 student (4.5%).

3. Difference between Male and Female Students' Vocabulary Mastery in Descriptive Text

The data presentation of the comparison between male and female students' vocabulary mastery can be seen as follows:

Table IV.5
The Comparison Score between Male and Female Students' Vocabulary Mastery in Descriptive Text

No	Male		Female	
	Student	**Score**	**Student**	**Score**
1	Student 1	36	Student 1	57
2	Student 2	29	Student 2	46
3	Student 3	32	Student 3	54
4	Student 4	68	Student 4	54
5	Student 5	68	Student 5	68
6	Student 6	32	Student 6	54
7	Student 7	57	Student 7	57
8	Student 8	21	Student 8	68
9	Student 9	36	Student 9	61
10	Student 10	32	Student 10	61
11	Student 11	32	Student 11	36
12	Student 12	64	Student 12	57
13	Student 13	68	Student 13	43
14	Student 14	57	Student 14	75
15	Student 15	46	Student 15	61
16	Student 16	39	Student 16	39
17	Student 17	68	Student 17	68
18	Student 18	43	Student 18	68
19	Student 19	57	Student 19	68
20	Student 20	50	Student 20	71
21	Student 21	68	Student 21	68
22	Student 22	32	Student 22	32
Total		**1036**		**1246**
Mean		**47**		**57**

From the table above, there were 22 students of both gander. The total score of male students was 1036 and the total score of female students was 1246. The mean score of male students was 47 and the mean score of female students was 57.

C. The Normality of the Data

Before analyzing the data by using independent sample t-test, it is necessary to test the normality of the data. In analyzing the normality of the

data, the researcher used Kolmogorov Smirnov formula calculated by using SPSS. The result of the normality data is as follows:

Table IV.6
Test of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	Df	Sig.
Male Students	.167	22	.114	.885	22	.015
Female Students	.172	22	.090	.921	22	.078

Based on the data above, can be seen that the sig. value of male students was 0.114 and the female was 0.090. It can be stated that 0.114>0.05 and 0.090>0.05 which means that both of the data were normally distributed.

D. The Data Analysis

1. Male Students' Vocabulary Mastery in Descriptive Text

The data analysis of male students' vocabulary mastery is explained in the following table:

Table IV.7
Descriptive Statistics of Male Students' Vocabulary Mastery

N	**Valid**	22
	Missing	0
Mean		47.0455
Median		44.5000
Std. Deviation		15.81283
Variance		250.045
Minimum		21.00
Maximum		68.00
Sum		1036

Table above explained the minimum score for vocabulary mastery in descriptive text of male students was 21 and the maximum score was 68. The total score was 1036, the standard deviation was 15.81 and the mean score was 47. From the means score, it can be concluded that the vocabulary mastery in descriptive text of male students was categorized into less category based on the scale of vocabulary mastery.

Table IV.8
Descriptive Statistics of Indicators of Male Students' Vocabulary Mastery

		Noun	Verb	Adjective	Adverb
N	Valid	22	22	22	22
	Missing	0	0	0	0
Mean		2,86	3,36	4,14	2,82
Median		3,00	4,00	4,00	3,00
Std. Deviation		1,424	1,049	1,859	1,097
Variance		2,028	1,100	3,457	1,203
Minimum		1	0	1	1
Maximum		5	5	7	5
Sum		63	74	91	62

From the table above, we can concluded that the mean score for noun was 3,59, the median was 3,00, standard deviation was 1,424, variance was 2,028, the minimum score was 1, the maximum score was 5, sum was 63. The mean score for verb was 3,36, the median was 4,00, standard deviation was 1,049, variance was 1,100, the minimum score was 0, the maximum score was 5, sum was 74. The mean score for adjective was 4,14, the median was 4,00, standard deviation was 1,850, variance was 3,457, the minimum score was 1, the maximum score was 7, sum was 91. The mean score for adverb was 2,82, the median was 3,00, standard

deviation was 1,097, variance was 1,203, the minimum score was 1, the maximum score was 5, sum was 62.

2. Female Students' Vocabulary Mastery in Descriptive Text

The data analysis of female students' vocabulary mastery is explained in the following table:

Table IV.9
Descriptive Statistics of Female Students' Vocabulary Mastery

N	Valid	22
	Missing	0
Mean		57.5455
Median		59.0000
Std. Deviation		11.99495
Variance		143.879
Minimum		32.00
Maximum		75.00
Sum		1246.00

Table above explained the minimum score for vocabulary mastery in descriptive text of male students was 32 and the maximum score was 75. The total score was 1246, the standard deviation was 11.99 and the mean score was 57. From the means score, it can be concluded that the vocabulary mastery in descriptive text of female students was categorized into enough category based on the scale of vocabulary mastery.

Table IV.10
Descriptive Statistics of Indicators of Female Students' Vocabulary Mastery

		Noun	Verb	Adjective	Adverb
N	Valid	22	22	22	22
	Missing	0	0	0	0
Mean		3,59	4,00	5,32	3,18
Median		4,00	4,00	5,50	3,00
Std. Deviation		1,008	1,234	1,460	1,181
Variance		1,015	1,524	2,132	1,394
Minimum		1	1	2	0
Maximum		5	6	7	5
Sum		79	88	117	70

From the table above, we can concluded that the mean score for noun was 3,59, the median was 4,00, standard deviation was 1,008, variance was 1,015, the minimum score was 1, the maximum score was 5, sum was 79. The mean score for verb was 4,00, the median was 4,00, standard deviation was 1,234, variance was 1,524, the minimum score was 1, the maximum score was 6, sum was 88. The mean score for adjective was 5,32, the median was 5,50, standard deviation was 1,460, variance was 2.132, the minimum score was 2, the maximum score was 7, sum was 117. The mean score for adverb was 3,18, the median was 3,00, standard deviation was 1,181, variance was 1,394, the minimum score was 0, the maximum score was 5, sum was 70.

3. Difference between Male and Female Students' Vocabulary Mastery in Descriptive Text

Before investigating the difference of male and female students' vocabulary mastery in descriptive text at Islamic Senior High School 2 Bengkalis, the researcher calculated the mean, standard deviation and

standard error mean score of Male and Female students by using SPSS, can be seen in the following table:

Table IV.11
Group Statistics

	Group	N	Mean	Std. Deviation	Std. Error Mean
Score	Male Students	22	47.0455	15.81283	3.37131
	Female Students	22	57.5455	11.99495	2.55733

Based on the table above, the total number of students for male students consisted of 22 students and female students consisted of 22 students. The mean score of male students was 47 and the mean score of female students was 57 and the standard deviation of male students was 15.81, while standard deviation of female students was 57.54, the std. error of mean of male students was 3.37, while the std. error of mean of female students was 2.55. The second table determines the result of the independent sample test analysis. The table is as follows:

Table IV.12
Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	Df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Score	Equal variances assumed	4.969	.031	-2.481	42	.017	-10.50000	4.23151	-19.03953	-1.96047
	Equal variances not assumed			-2.481	39.156	.017	-10.50000	4.23151	-19.05794	-1.94206

Based on the output SPSS above, independent-sample T-Test shows Levene's Test to know the same variance. The testing criteria and hypotheses are below:

If Probabilities >0.05, Ho is accepted

If Probabilities < 0.05, Ha is accepted

Ho: Variance Population identical

Ha: Variance Population not identical

It can be seen that the sig. value of Levene's Test is 0.031. It can be stated that 0.031<0.05. It means that Ha is accepted, so the variance of the population is not identical. Then, to know whether there is or not the statistically difference, independent sample T-Test shows the t-test for Equality of means. The testing criteria and hypotheses are below:

If Probabilities >0.05, Ho is accepted

If Probabilities < 0.05, Ha is accepted

Ho: There is no statistically difference

Ha: There is statistically difference

From the output above, it can be seen that the sig. value is 0.017. It can be stated that 0.017<0.05. It means that null hypothesis (H_o) is rejected, while the alternative hypothesis (H_a) is accepted. So, it can be concluded that there is a significant difference between male students and female students on vocabulary mastery in descriptive text at the tenth grade of Islamic Senior High School 2 Bengkalis.