

CHAPTER – IV
DATA ANALYSIS AND
INTERPRETATION

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DATA ANALYSIS, RESULTS, AND FINDINGS

4.0.0 INTRODUCTION

The introduction, background of the study along with the justification and need of the present research objectives, and hypothesis are given in Chapter – I. The reviews of the related literature have been presented in Chapter – II. The Methodology followed in this study has been in detail in the previous chapter. The present chapter is given to the presentation of Data and its analysis, results, and interpretations. Objective-wise analysis of data and interpretations of the results are presented, below, under separate captions.

4.1.0 ATTITUDE OF CLASS VIII STUDENTS IN RELATION TO GENDER TOWARDS ENVIRONMENTAL EDUCATION

The first objective of the present study was to compare the attitude of primary students in relation to gender towards Environmental Education. The comparison was done after collecting data from the respondents including both males and females based on some questions checking their attitude towards the environment. The data were analyzed with the help of mean, standard deviation, and standard error mean. The results related to each of these are presented in Table 4.1 below.

Table 4.1: Descriptive statistics for Attitude among both the gender in Environmental Education of Class VIII students of Kendriya Vidyalaya, Keonjhar

Genders	N	Mean	Std. Deviation	Std. Error Mean
Attitude 1	30	37.97	4.460	.814
Scores 2	30	38.77	3.421	.625

Here, the independent variable is gender and the dependent variable is attitude score. The data were analyzed through a student t-test. The results are given in Table 4.2.

Table 4.2: Summary of t-test for Attitude score of Environmental Education taking gender as an independent variable.

	t-test for Equality of Means								
	F	Sig.	T	df	Sig(2-tailed)	Mean difference	Std Error Difference	Lower	Upper
Attitude scores Equal variances assumed	.060	.807	-.780	58	.493	-.800	1.026	-2.854	1.254
Equal variances not assumed			-.780	54.346	.439	-.800	1.026	-2.857	1.257

4.1.1 Influence of Gender on Attitude of Class VIII students towards Environmental Sciences

Table 4.2 shows that the p-value for Gender is found to be 0.493. This is not significant at a 0.05 level with a degree of freedom equal to 58. It reflects there is no significant difference in the attitude score between males and females. So, we cannot reject the null hypothesis.

Findings: There exist no significant influence of Gender on Attitude toward Environmental Education among Class VIII students of Kendriya Vidyalaya Keonjhar.

4.2.0 RELATION BETWEEN ATTITUDE AND ACHIEVEMENT OF STUDENTS

The second objective of the study was to establish a relation between Attitude and Achievement of the Class VIII students in Environmental Education. In Fig 4.1 and Fig 4.2 percentage for number of students falling under different percentage score are categorized. Those who have secured more than 75 percent (>75%) are considered to have High understanding. Those who secured percentage between 50 to 75 are considered to have average understanding and those who have less than 50 percent (<50%) are regarded as poor.

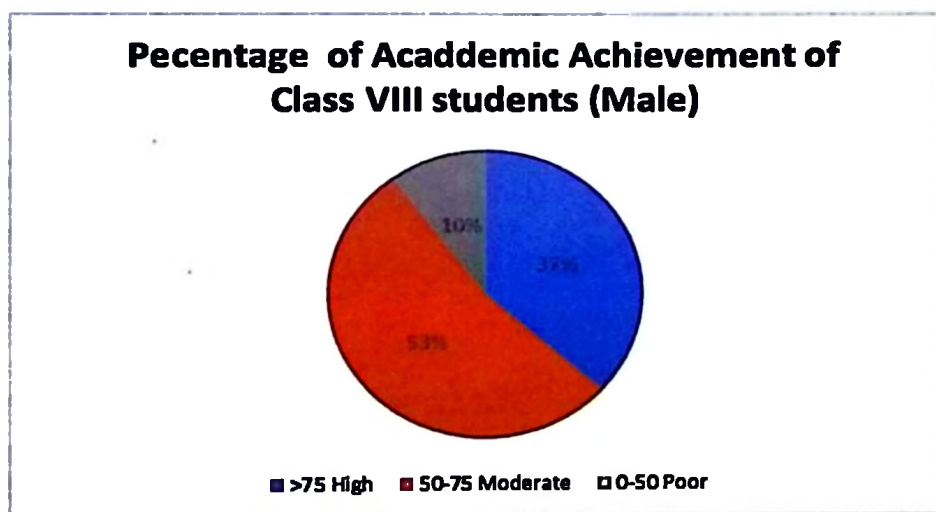


Fig 4.1: Percentage of Academic Achievement of Class VIII students among Male

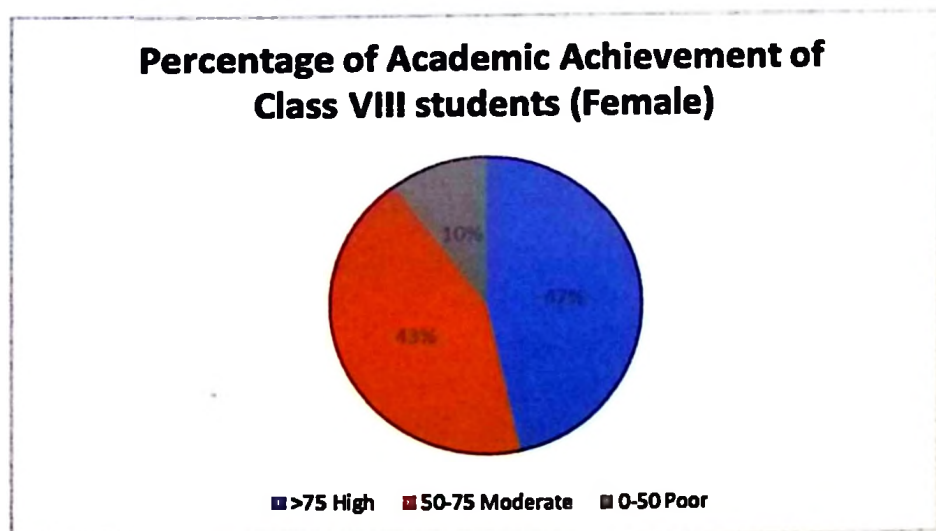


Fig 4.2: Percentage of Academic Achievement of Class VIII students among Female

Again, the comparison along with the attitude test and achievement test was conducted and the scores are recorded. The result related to this is presented in Table 4.3. and Table 4.4. A Pearson correlation test is done on it.

Table 4.3: Descriptive Statistics of Attitude and Achievement marks of Class VIII students

	Mean	Std. Deviation	N
Attitude Scores	38.37	3.962	60
Achievement Marks	10.55	2.607	60

Table 4.4: Correlation between Attitude score and Achievement marks of Class VIII students

	Attitude Scores	Achievement Marks
Attitude Scores	1	.133
Pearson Correlation		
Sig. (2-tailed)		.312
N	60	60
Achievement Marks	.133	1
Pearson Correlation		
Sig. (2 - tailed)	.312	
N	60	60

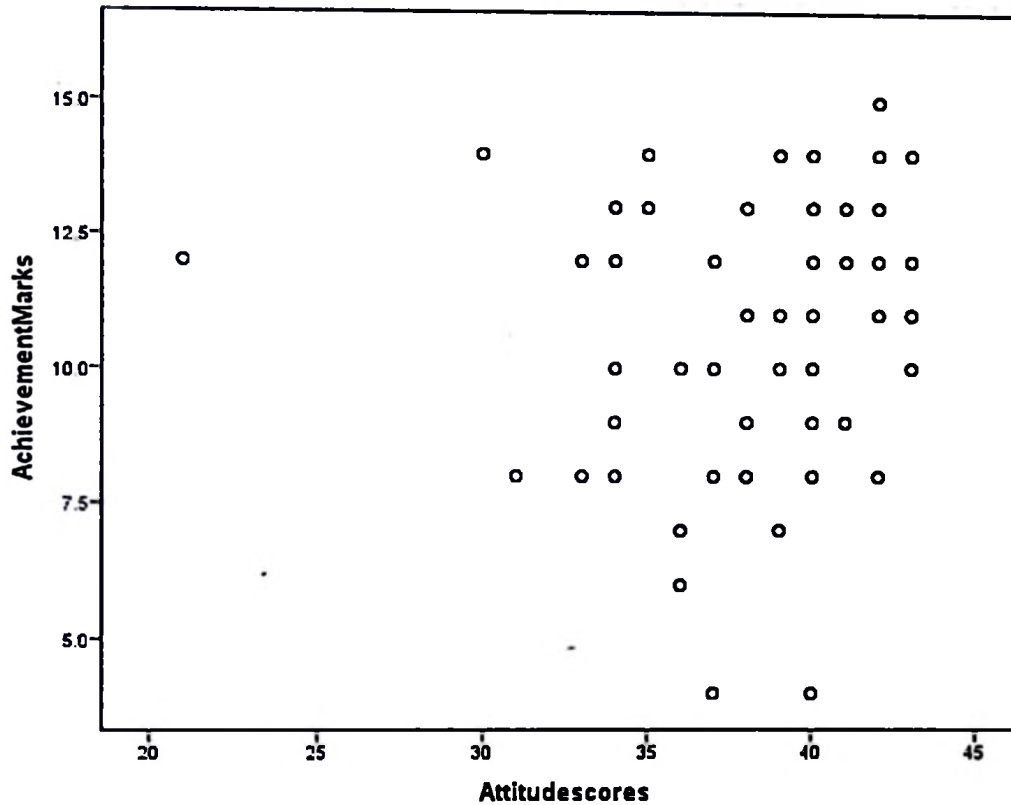


Fig 4.3: Scattered plot of Attitude and Achievement marks of Class VIII students

From the Table, the p-value was found to be 0.312. Also, the Pearson correlation value is 0.133. Since $p = 0.312 > 0.05$, there exist a very weak correlation between the attitude scores and achievement marks. Also, the scattered plot given in Fig 4.3 establish the fact that there lies a weak correlation between Attitude and Achievement among the students of Class VIII of Kendriya Vidyalaya Keonjhar.

Findings: There exists weak correlation between Attitude and Achievement of the Class VIII students towards Environmental Education.