

4. ANALYSIS AND INTERPRETATION

CHAPTER FOUR

ANALYSIS AND INTERPRETATION OF DATA

4.0.0 INTRODUCTION

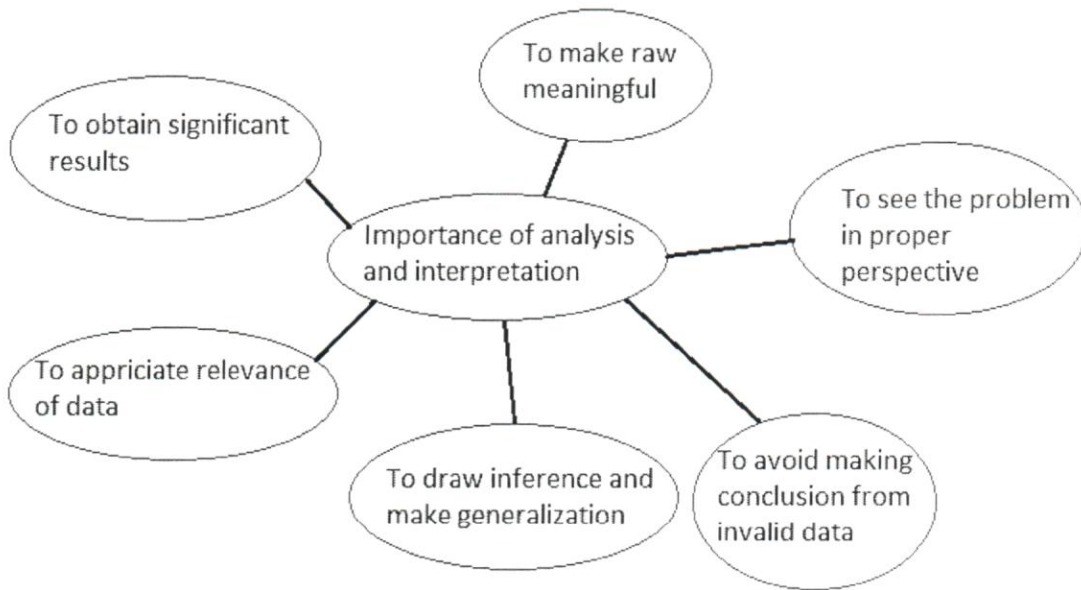
In the present chapter, the analysis and interpretation of the data with reference to the objectives of study have been presented. The fundamental aim of any analysis is to organize the data in the meaningful form, so that valid conclusion can be drawn from them. The analysis and interpretation gives shape and form to aims and objectives of the study in the words of Wolf (1956) "The process of analysis and synthesis of the collected data is the foundation stone of all specific methods.

Value of research depends very largely on the degree of intellect to which its results are analyzed and interpreted. Data collected through the administration of tools on selected samples are raw in nature. The data need to be organized, analyzed and interpreted for drawing sound conclusion and valid generalizations. Organization of data includes editing, classifying and tabulating information while editing implies checking of gathered raw data for accuracy, usefulness and completeness. Classification refers to dividing the data into different categories, classes, groups.

Tabulation is the process of transferring data, classified in the tabular form in which they may be systematically examined. Analysis of data means the organized material in order to discover inherent facts. The data are studied from as many angles as possible to explore the new facts.

Good, Bar and Scates observed, "The process of interpretation is essentially a way of stating, what the results show, what they mean, what is their significance, what is the answer to the original problem and that all the limitations of the data enter into, and become a part of interpretation of the result."

The purpose of analysis is to summarize the completed observations in such a manner that they yield answers to the research problem while the purpose of interpretation is to investigate for the broader meaning of these answers by linking them to other available knowledge. The analysis is not an end in itself, but it is a basic preliminary step in the scientific development of the problem.



Importance of analysis and interpretation chart

4.1.0 DATA ANALYSIS

After collection of data, the next step is the classification and analysis of the data.

“An analysis of the data is equally important. A careful planning of the analytical framework should, therefore, be envisaged by the researcher”.

The approach adopted in the study is basically analytical and descriptive in nature.

On the basis of the objectives of the study, the collected data was tabulated. On preparation of the tables, accounting tools and techniques - like percentages, ratios, averages, trend analysis, etc. were calculated. For the statistical analysis of the data, the following tools and techniques were used

- Tools: secondary data from the private schools of Ujjain dist.
- Technique: descriptive statistics

4.2.0 A Study of academic achievement progression of students of RTE Act 2009 in private schools of Ujjain district, MP.

Compiled Data from School 1

Table 4.1 showing academic session, class and marks obtained by RTE students:

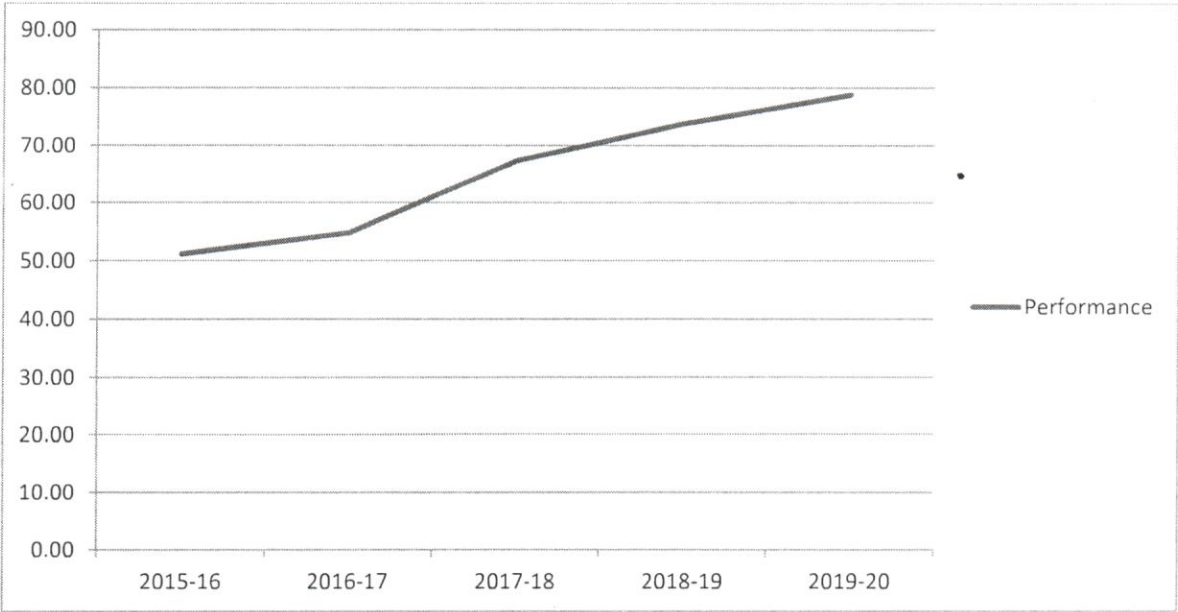
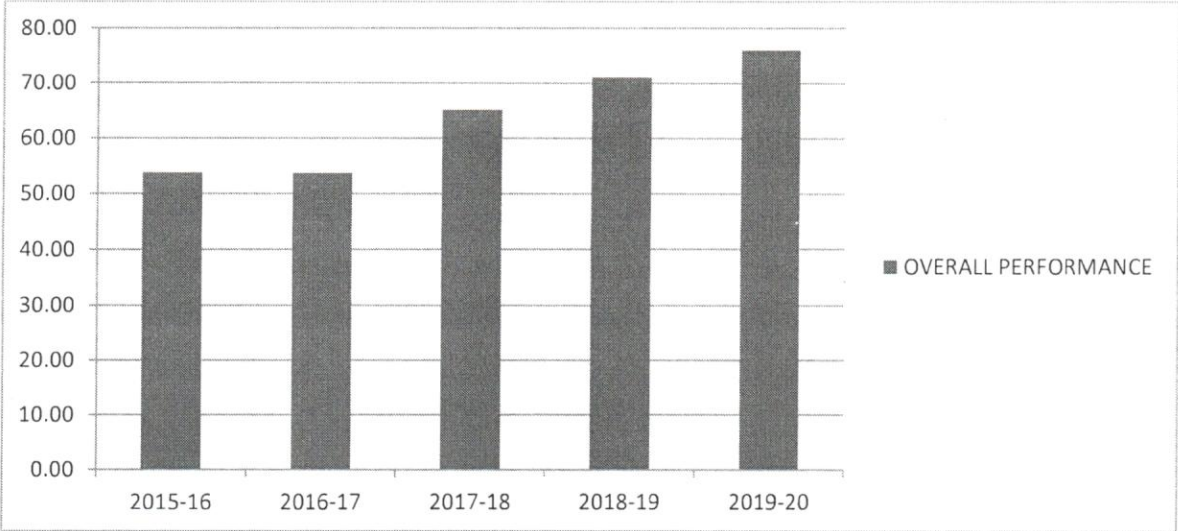
Imperial International School, Khachrod, Ujjain													
S I N O	Name of the Studnets	Gen der	Full Mar ks	Academic Session/ Classes /Marks Obtained									
				2015- 16	%	2016 -17	%	2017 -18	%	2018- 19	%	2019- 20	%
				Class 1		Class 2		Class 3		Class 4		Class 5	
1	Ku Aisha Bee	Girl	600	298	49.67	220	36.67	398	66.33	418	69.67	426	71.00
2	Ku Arshala Gauri	Girl	600	322	53.67	318	53.00	348	58.00	380	63.33	429	71.50
3	Ku Manisha Goyal	Girl	600	249	41.50	268	44.67	321	53.50	372	62.00	422	70.33
4	Ku Nisha Parmar	Girl	600	277	46.17	299	49.83	411	68.50	461	76.83	480	80.00
5	Ku Shivani Parmar	Girl	600	347	57.83	367	61.17	410	68.33	439	73.17	472	78.67
6	Ku Tanushree Panchal	Girl	600	389	64.83	394	65.67	422	70.33	441	73.50	474	79.00
7	Zaiba Mev	Girl	600	379	63.17	393	65.50	426	71.00	477	79.50	488	81.33
8	Ma Devendra Rathod	Boy	600	219	36.50	258	43.00	321	53.50	359	59.83	374	62.33
9	Ma Mohammad Ali	Boy	600	241	40.17	269	44.83	367	61.17	401	66.83	439	73.17
10	Ma Mohit Singh	Boy	600	277	46.17	342	57.00	389	64.83	420	70.00	434	72.33
11	Ma Param Meena	Boy	600	279	46.50	318	53.00	398	66.33	448	74.67	464	77.33
12	Ma Raunak Kapoor	Boy	600	179	29.83	221	36.83	319	53.17	376	62.67	445	74.17
13	Ma Rishabh Bharawa	Boy	600	289	48.17	339	56.50	389	64.83	418	69.67	437	72.83
14	Ma sandeep parmar	Boy	600	249	41.50	288	48.00	348	58.00	401	66.83	429	71.50
15	Ma Vedant Meena	Boy	600	224	37.33	256	42.67	358	59.67	369	61.50	411	68.50
16	Ma Yogesh Chouhan	Boy	600	369	61.50	384	64.00	447	74.50	482	80.33	486	81.00

Table 4.2 shows the overall result of the RTE students per year

Imperial International School, Khachrod, Ujjain							
Name of the Studnets	Gender	Full Marks	Class 1 result in %	Class 2 result in %	Class 3 result in %	Class 4 result in %	Class 5 result in %
			2015-16	2016-17	2017-18	2018-19	2019-20
Ku Aisha Bee	Girl	600	49.67	36.67	66.33	69.67	71.00
Ku Arshala Gauri	Girl	600	53.67	53.00	58.00	63.33	71.50
Ku Manisha Goyal	Girl	600	41.50	44.67	53.50	62.00	70.33
Ku Nisha Parmar	Girl	600	46.17	49.83	68.50	76.83	80.00
Ku Shivani Parmar	Girl	600	57.83	61.17	68.33	73.17	78.67
Ku Tanushree Panchal	Girl	600	64.83	65.67	70.33	73.50	79.00
Zaiba Mev	Girl	600	63.17	65.50	71.00	79.50	81.33
Girls' Average			53.83	53.79	65.14	71.14	75.98
Ma Devendra Rathod	Boy	600	36.50	43.00	53.50	59.83	62.33
Ma Mohammad Ali	Boy	600	40.17	44.83	61.17	66.83	73.17
Ma Mohit Singh	Boy	600	46.17	57.00	64.83	70.00	72.33
Ma Param Meena	Boy	600	46.50	53.00	66.33	74.67	77.33
Ma Raunak Kapoor	Boy	600	29.83	36.83	53.17	62.67	74.17
Ma Rishabh Bharawa	Boy	600	48.17	56.50	64.83	69.67	72.83
Ma sandeep parmar	Boy	600	41.50	48.00	58.00	66.83	71.50
Ma Vedant Meena	Boy	600	37.33	42.67	59.67	61.50	68.50
Ma Yogesh Chouhan	Boy	600	61.50	64.00	74.50	80.33	81.00
Boys' Average			43.07	49.54	61.78	68.04	72.57
School Average			51.15	54.76	67.32	73.84	78.81

Table 4.2 reveals that the result of the RTE students from year 2015-2020 gradually increases. The 2015-16 shows 51.15%, 2016-17 shows 54.76%, 2017-18 shows, 67.32%, 2018-19 shows 73.84% and 2019-2020 shows 78.81% which the highest among all. The table also extended to the gradually increasing academic achievement of boys and girls of Imperial International School. The above mentioned data includes the class wise annual academic progression of the RTE students.

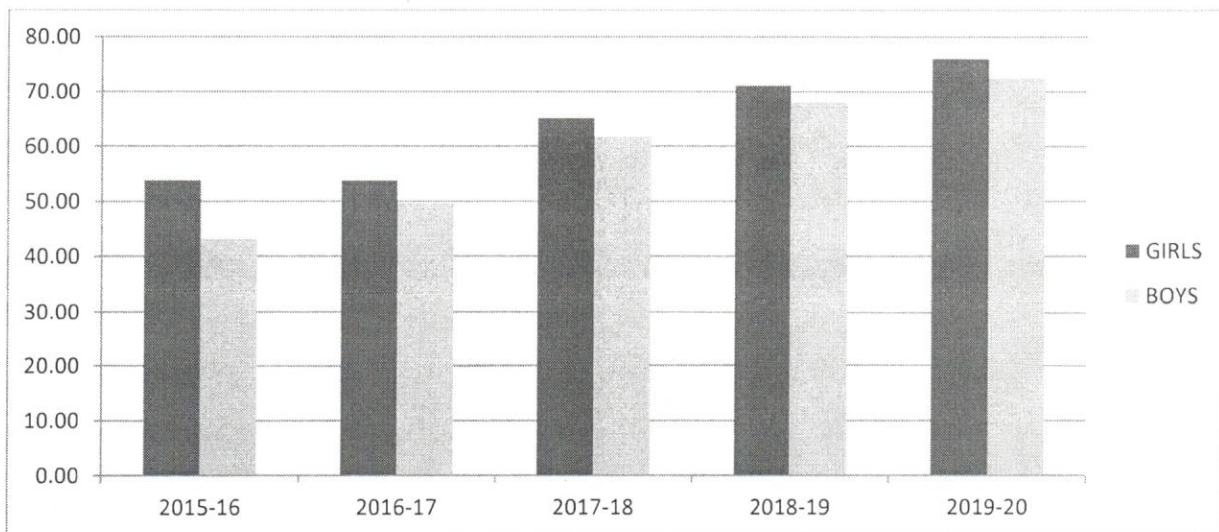
Graph 4.1: Graphical Representation of the overall Academic Achievement from the above table

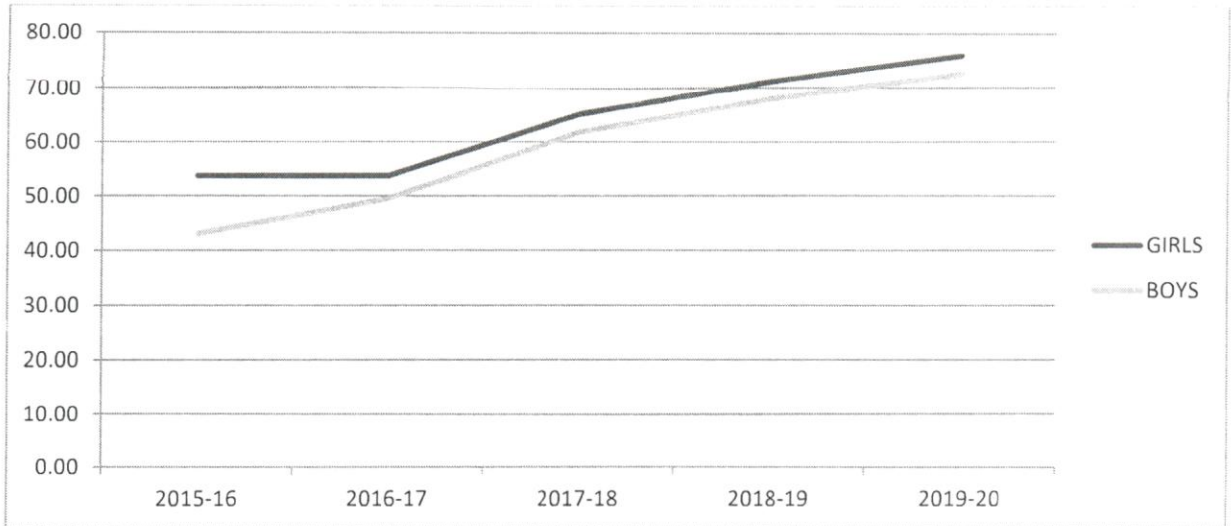


The above graph has the yearly distribution in X-axis and percentage in Y-axis. This indicates that the overall academic achievement progression of the RTE students of the Imperial International School is:

- In 20015-16 the performance was 51.15%
- In 20016-17 the performance was 54.76%
- In 20017-18 the performance was 67.32%
- In 20018-19 the performance was 73.84%
- In 20019-20 the performance was 78.81%
- From the above graph it is seen that the academic achievement of the student's admission under RTE Act 2009, has the increase in their performance in the progressive year respectively.

Graph 4.2: Graphical representation of Gender wise Academic Achievement from the above table





The above graph represents the academic achievement of girls and boys annually. This shows that in year:

2015-16:	girls -53.83%	boys -43.07%
2016-17:	girls -53.79%	boys -49.54%
2017-18:	girls -65.14%	boys -61.78%
2018-19:	girls -71.14%	boys -68.04%
2019-20:	girls -75.98%	boys -72.57%

Thus, the graph indicates that girls have high academic achievement progression than boys in Imperial International School from academic session 2015-2020.

Compiled Data from school 2:

Table 4.3 showing academic session, class and marks obtained by RTE students:

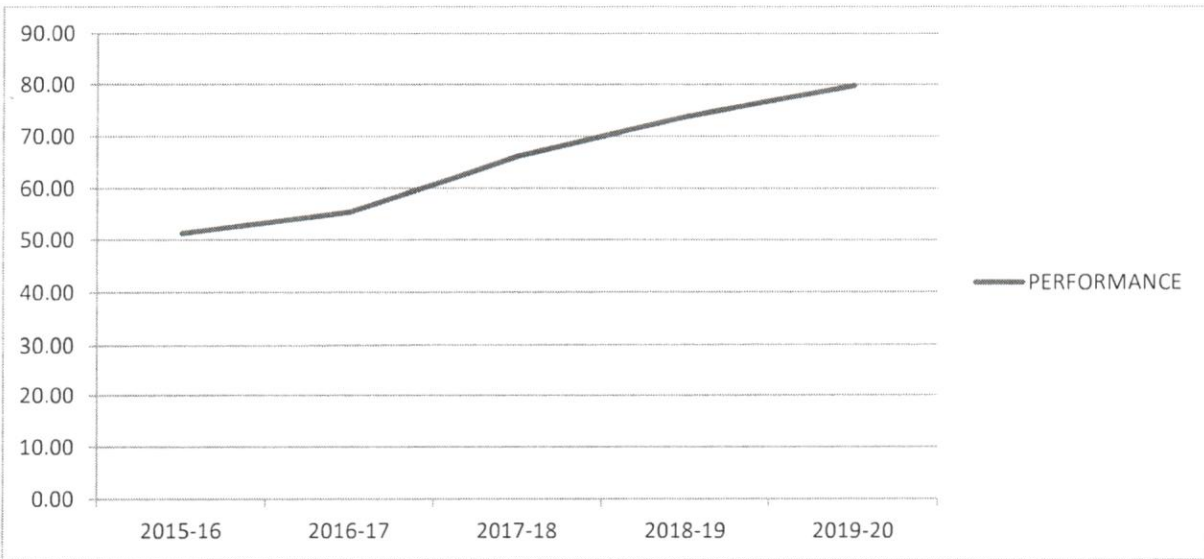
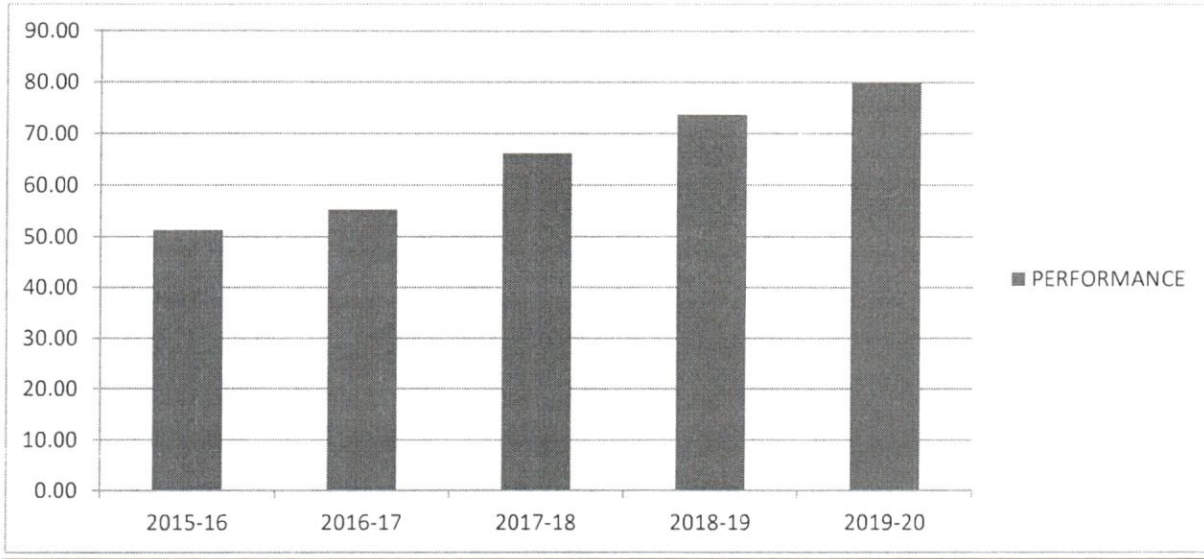
Raj Rajendra Public School, Khachrod, Ujjain													
SI N o	Name of the Studnets	Gender	Full Marks	Academic Session/ Classes /Marks Obtained									
				2015- 16	%	2016- 17	%	2017- 18	%	2018- 19	%	2019- 20	%
				Class 1		Class 2		Class 3		Class 4		Class 5	
1	Ku Aditi Garwal	Girl	600	301	50.17	312	52.00	388	64.67	433	72.17	426	71.00
2	Ku Alfiya masaudi	Girl	600	326	54.33	318	53.00	347	57.83	385	64.17	452	75.33
3	Ku Manisha Goyal	Girl	600	256	42.67	273	45.50	332	55.33	326	54.33	447	74.50
4	Ku Ashwini Songara	Girl	600	278	46.33	306	51.00	413	68.83	452	75.33	489	81.50
5	Ku Chanchal Patidar	Girl	600	344	57.33	366	61.00	412	68.67	439	73.17	473	78.83
6	Ku Gayatri Gohil	Girl	600	392	65.33	368	61.33	423	70.50	446	74.33	486	81.00
7	Ku Hrishika Popandiya	Girl	600	384	64.00	393	65.50	436	72.67	478	79.67	488	81.33
8	Ku Neha Anjana	Girl	600	221	36.83	258	43.00	232	38.67	359	59.83	374	62.33
9	Ma Ayush Bamboriya	Boy	600	242	40.33	269	44.83	366	61.00	402	67.00	452	75.33
10	Ma Balram Bamta	Boy	600	278	46.33	342	57.00	389	64.83	420	70.00	434	72.33
11	Ma Himanshu vasuniya	Boy	600	278	46.33	319	53.17	397	66.17	446	74.33	463	77.17
12	Ma Sanyam Dhakad	Boy	600	181	30.17	224	37.33	315	52.50	371	61.83	448	74.67
13	Ma Yogesh Patidar	Boy	600	291	48.50	346	57.67	387	64.50	419	69.83	443	73.83
14	Ma Tejpal Parihar	Boy	600	247	41.17	289	48.17	347	57.83	402	67.00	426	71.00
15	Ma Surya Dariya	Boy	600	226	37.67	257	42.83	348	58.00	397	66.17	411	68.50
16	Ma Nirman Nigam	Boy	600	368	61.33	384	64.00	449	74.83	492	82.00	498	83.00

Table 4.4 shows the overall result of the RTE students per year

Raj Rajendra Public School, Khachrod, Ujjain							
Name of the Students	Gender	MM	Class 1 result in %	Class 2 result in %	Class 3 result in %	Class 4 result in %	Class 5 result in %
			2015- 16	2016- 17	2017- 18	2018- 19	2019- 20
Ku Aditi Garwal	Girl	600	50.17	52.00	64.67	72.17	71.00
Ku Alfiya masaudi	Girl	600	54.33	53.00	57.83	64.17	75.33
Ku Manisha Goyal	Girl	600	42.67	45.50	55.33	54.33	74.50
Ku Ashwini Songara	Girl	600	46.33	51.00	68.83	75.33	81.50
Ku Chanchal Patidar	Girl	600	57.33	61.00	68.67	73.17	78.83
Ku Gayatri Gohil	Girl	600	65.33	61.33	70.50	74.33	81.00
Ku Hrishika Popandiya	Girl	600	64.00	65.50	72.67	79.67	81.33
Ku Neha Anjana	Girl	600	36.83	43.00	38.67	59.83	62.33
Girls' Average			52.12	54.04	62.15	69.13	75.73
Ma Ayush Bamboriya	Boy	600	40.33	44.83	61.00	67.00	75.33
Ma Balram Bamta	Boy	600	46.33	57.00	64.83	70.00	72.33
Ma Himanshu vasuniya	Boy	600	46.33	53.17	66.17	74.33	77.17
Ma Sanyam Dhakad	Boy	600	30.17	33.33	52.50	61.83	74.67
Ma Yogesh Patidar	Boy	600	48.50	57.67	64.50	69.83	73.83
Ma Tejpal Parihar	Boy	600	41.17	48.17	57.83	67.00	71.00
Ma Surya Dariya	Boy	600	37.67	42.83	58.00	66.17	68.50
Ma Nirman Nigam	Boy	600	61.33	64.00	74.83	82.00	83.00
Boys' Average			43.98	50.13	62.46	69.77	74.48
School Average			51.31	55.46	66.19	73.77	79.84

Table 4.4 reveals that the result of the RTE students from year 2015-2020 gradually increases. The 2015-16 shows 51.%, 2016-17 shows 55.46%, 2017-18 shows 66.19%, 2018-19 shows 73.77% and 2019-2020 shows 79.84% which the highest among all. The table also extended to the gradually increasing academic achievement of boys and girls of Raj Rajendra Public School. The above mentioned data includes the class wise annual academic progression of the RTE students.

Graph 4.3: Graphical Representation of the overall Academic Achievement from the above table

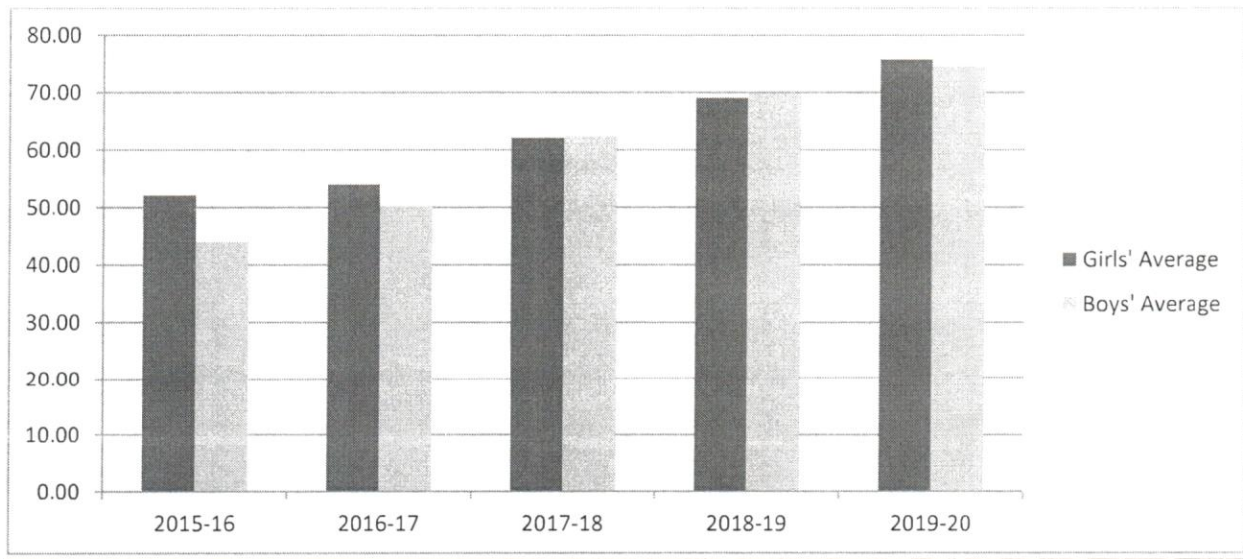


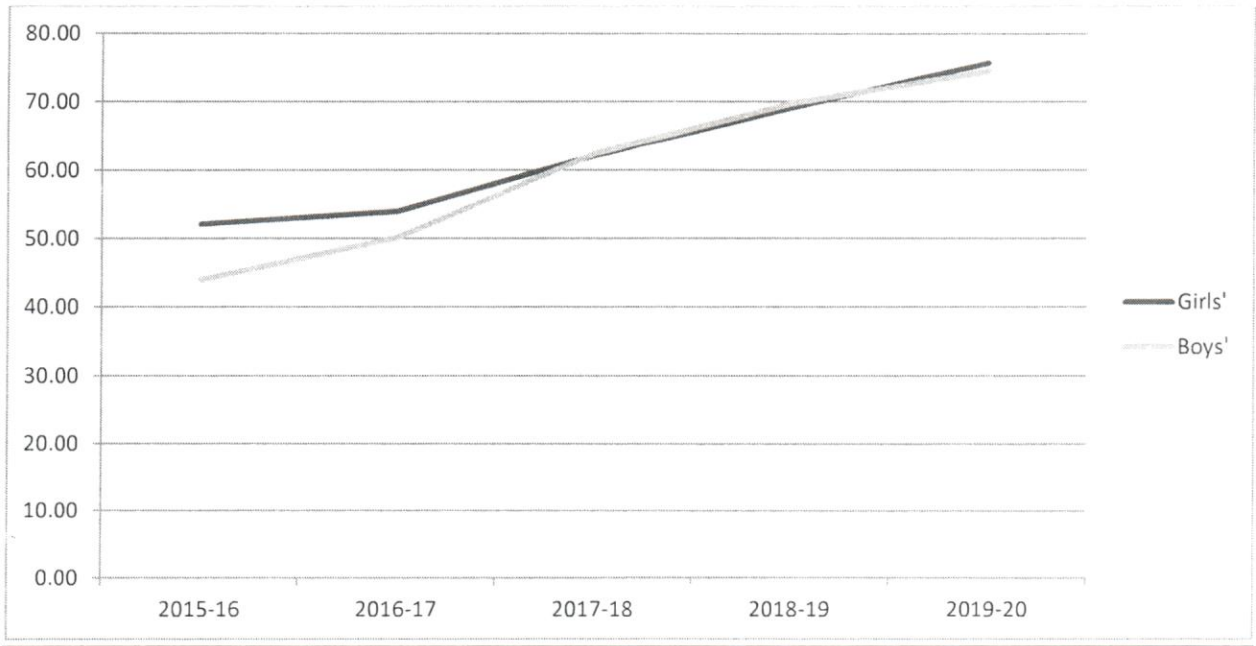
The above graph has the yearly distribution in X-axis and percentage in Y-axis. This indicates that the overall academic achievement progression of the RTE students of the Rj Rajendra Public School is:

- In 2015-16 the performance was 51.31%
- In 2016-17 the performance was 55.46%
- In 2017-18 the performance was 66.19%
- In 2018-19 the performance was 73.77%
- In 2019-20 the performance was 79.84%

From the above graph it is seen that the academic achievement of the student's admission under RTE Act 2009, has the increase in their performance in the progressive year respectively.

Graph 4.4: Graphical representation of Gender wise Academic Achievement from the above table



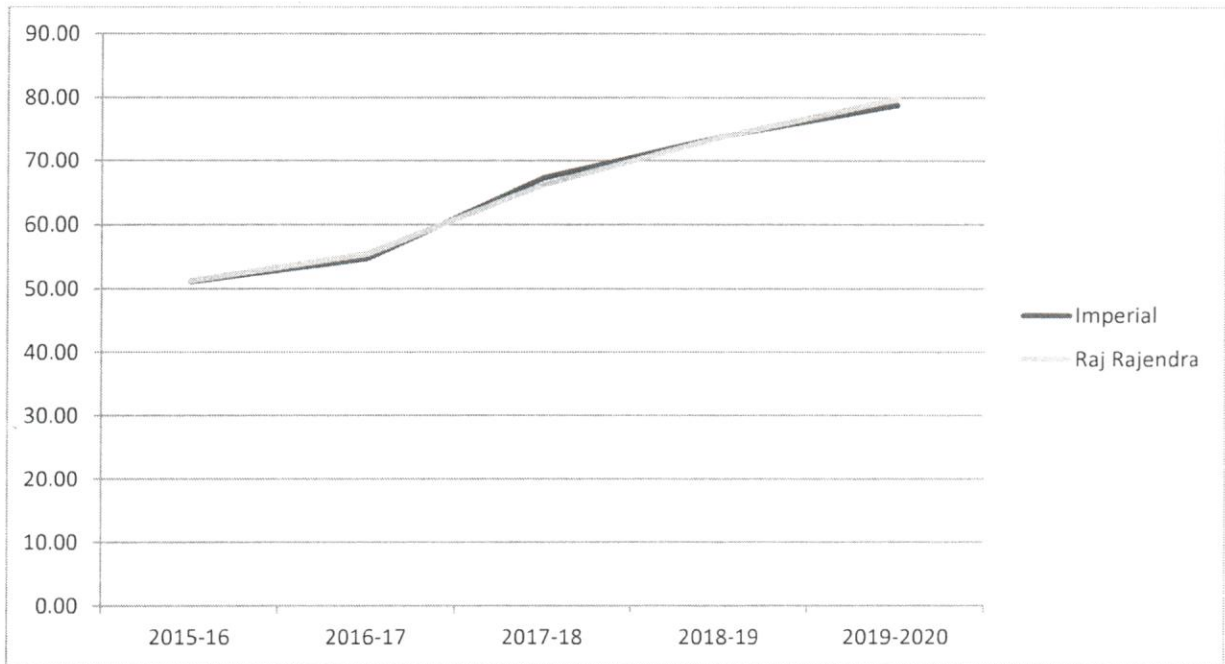
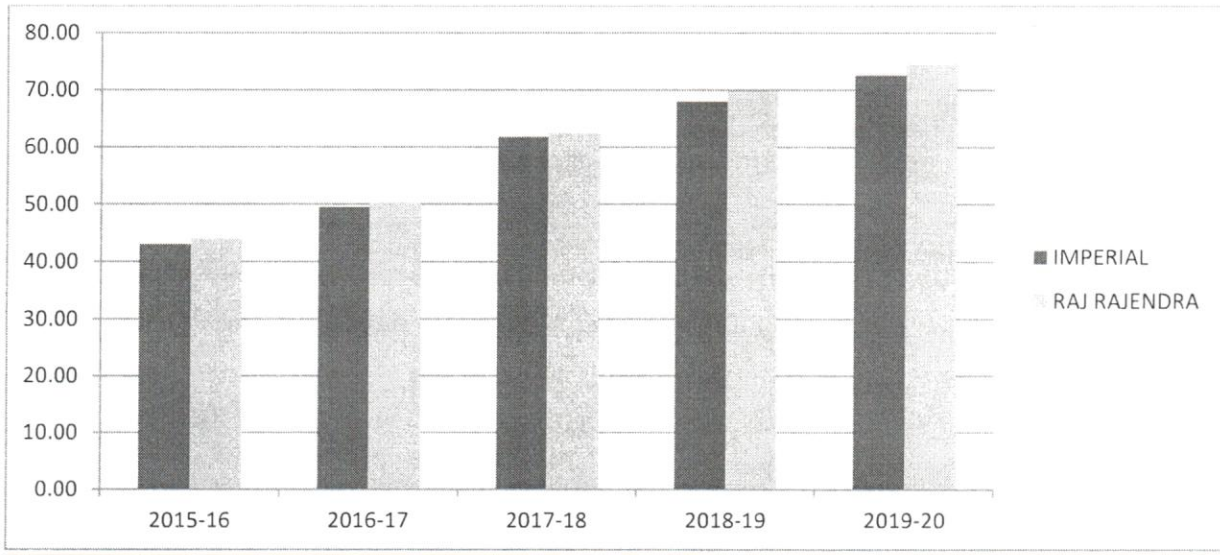


The above graph represents the academic achievement of girls and boys annually. This shows that in year:

2015-16:	girls -52.12%	boys -43.98%
2016-17:	girls -54.04%	boys -50.13%
2017-18:	girls -62.15%	boys -62.46%
2018-19:	girls -69.13%	boys -69.77%
2019-20:	girls -75.73%	boys -74.48%

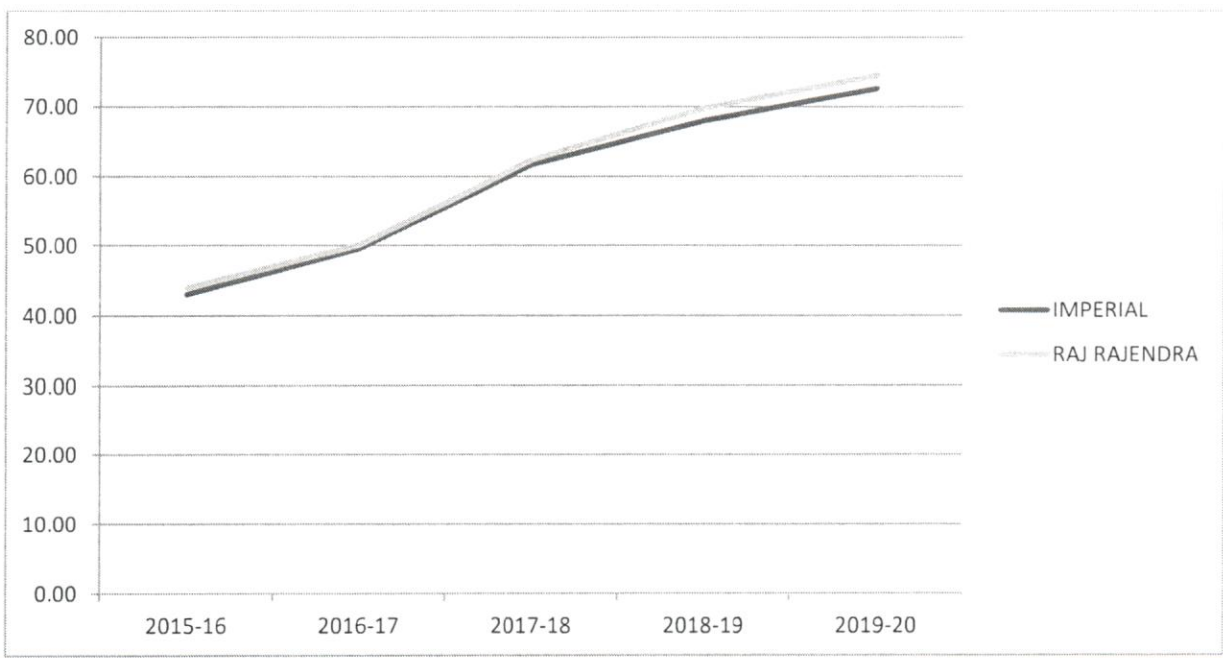
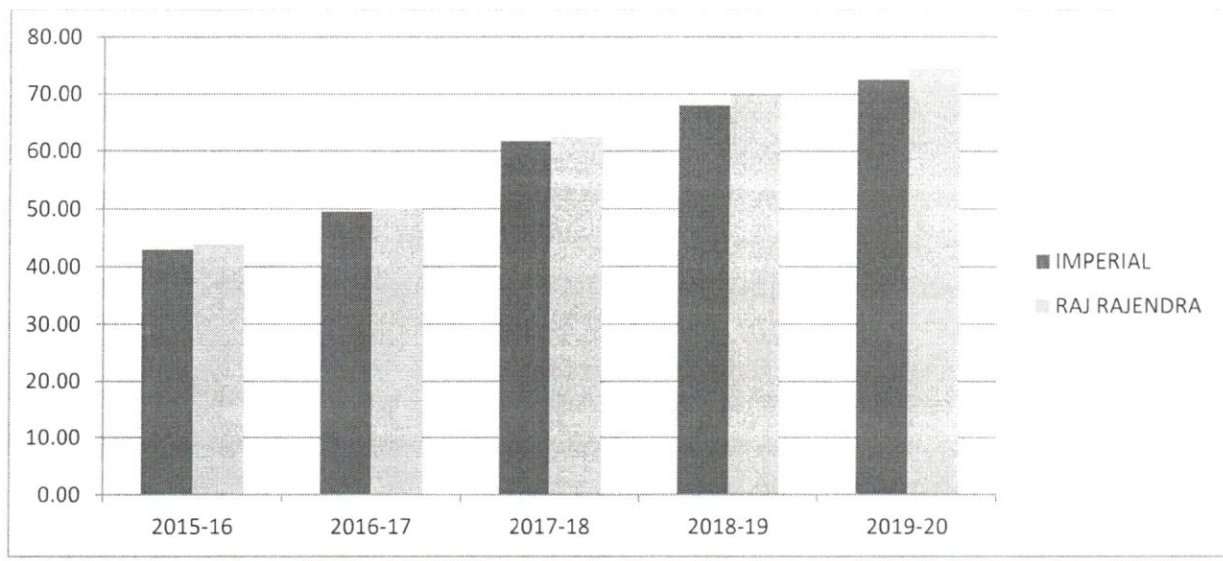
Thus, it indicates that there is some variations in the academic achievement in girls and boys of Raj Rajendra Public School. In the year 2015-16 and 2016-17 girls were in progression than boys but from 2017-18 to 2018-19 boys were at better progression than girls and at the end in 2019-20 girls were again at progression which can be seen clearly in the above mentioned graph.

Graph 4.5: Comparative Academic Achievement of both Schools



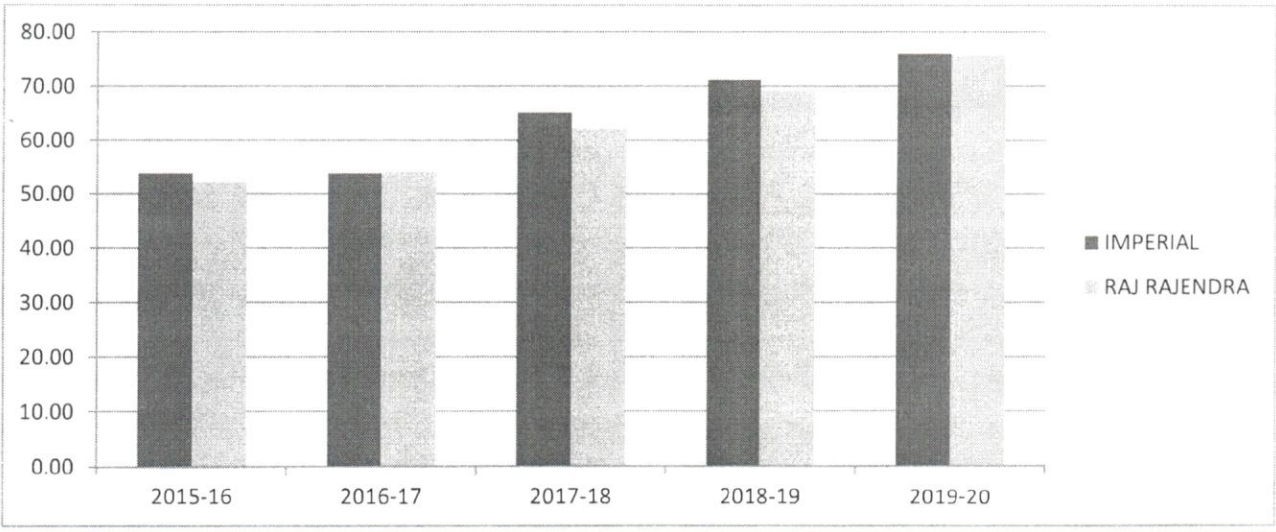
The above graph shows that there is a comparative study of academic achievement of both Imperial International and Raj Rajendra public school. It indicates that the academic achievement of RTE students of Raj Rajendra Public School is increasing gradually.

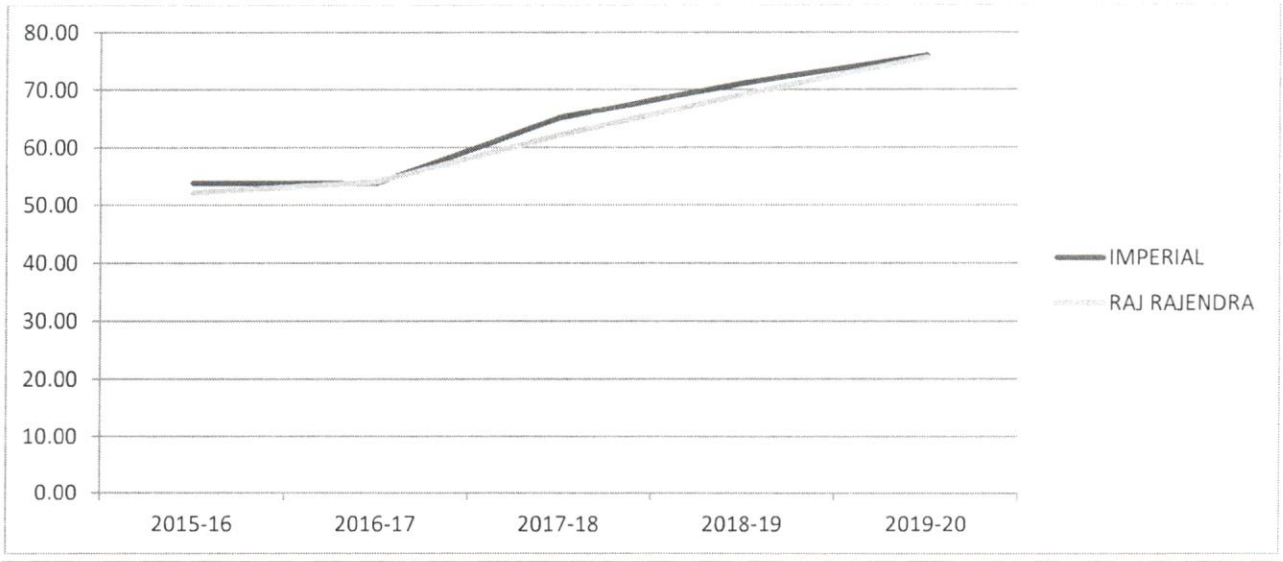
Graph 4.6: Comparative graph of Boys' academic achievement of both Schools



The above graph is the comparative representation of boys' academic achievement progression from 2015-2020 in Imperial International School and Raj Rajendra Public School of Ujjain district. This indicates that the academic achievement of boys in Raj Rajendra public School is increasing annually than the boys in Imperial International School admission under RTE Act 2009 provision, respectively.

Graph 4.7 Comparative graph of Girls' academic achievement of both Schools





The above graph is the comparative representation of girls' academic achievement progression from 2015-2020 in Imperial International School and Raj Rajendra Public School of Ujjain district.

Year	Imperial International School	Raj Rajendra Public School
2015-16	53.83%	52.12%
2016-17	53.79%	54.04%
2017-18	65.14%	62.15%
2018-19	71.14%	69.13%
2019-2020	75.98%	75.73%

This indicates that the academic achievement of girls in Imperial International School is increasing annually than the girls in Raj Rajendra Public School admission under RTE Act 2009 provision, respectively.