



# Review of Literature



## STUDENTS ACHIEVEMENT IN MATHEMATICS AT SECONDARY LEVEL IN MURSHIDABAD DISTRICT



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### ABSTRACT

The purpose of the study is student achievement in Mathematics at secondary level in relation their strata and sex. The literature regarding the comparison of elementary schools mathematics achievement between urban and rural area & boy's and girl's students. The sample of 200 students was selected from two secondary school (class-viii) one in urban area and other in rural area. The obtained data was analyzed using mean, standard deviation. The study revealed that the students in urban area is some better than the rural area and the boy's are better than the girl's on achievement in mathematics at secondary level. This indicates the loss of human resources due to lack of care from the stand point of teaching. If we take necessary remedial measures about the problems, the poor achievement in Mathematics shall be improved.

**KEYWORDS** : Achievement, Mathematics, Urban area, Rural area, Secondary school.

### INTRODUCTION

It has been rightly said that a person without education is like animal, knowledge can be acquired by education only. Education refers to the action of educating some one or of being educated. Mathematics is not about answers, it's about processes. Mathematics as a human endeavor. Mathematics is a product of society and it can both reflect and serve the interests of particular groups. Mathematics has long played a central role in the intellectual and technological history of mankind. The mathematication of our society brings with it an increasing need for people able to understand and

use mathematics. This need manifests itself at various levels.

It is generally agreed that mathematics is a critical skill for all, including to those who have not achieved. Mathematics is also important as a school subject because not only is it needed for the science, it also provides to develop our life. Mathematics is a core skill for all adults in life generally. A mathematically well educated population will contribute to the countries economic prosperity. Mathematics is important for its own sake.

#### **OBJECTIVE OF THE STUDY:**

The purpose of the study is to find out the problems of students of achievement in mathematics.

- i) To study the proper environment of achievement in mathematics at school.
- ii) To study the family awareness of achievement in mathematics.
- iii) To study the use of teaching materials achievement in mathematics.

#### **SOCIAL STRATA:**

Urban area - a population not less than 5000 and density of less 1000 persons per square mile. The place should have a few pronounced urban characteristics and evaluation like location of educational, medical or public institutions office or trading centre in it.

Rural area - Rural area means that are in which persons live in it and make a living directly from agriculture.

#### **Term defined:**

a) Knowledge – The word knowledge can be defined as-

- i) The accumulated facts, truth, principle and information to which the human mind has access.
- ii) Outcome of specified rigorous inquiry.

b) Understanding – An “understanding” is defined as the mental power faculty or function where in the meaning of phenomena or propositions are apprehended in mathematics and as a loose synonym for appreciation of meaning.

c) Skill – Physical or motor activity is extremely necessary for different types of student behaviors under learning situation. But the student’s behaviors also included mental operations. So skill is both motor and psychomotor abilities of the individual in performing different task in educational situations. Skill facilitates speedy learning and achievement. Society demands skilled scientist. One of the outstanding characteristics of scientific culture in unification live and non-livings. Proper foundation of knowledge of the subjects should be laid of the schools.

d) Application – education Application can be defined as

- i) The acts of concentrating attention on the material at hand when called on to master printed or written matter.
- ii) The type of activity in a directed study procedure in which pupils attempt to apply what they have learned in study of a subject or topic.

#### **METHODOLOGY:**

In this study, sampling unit was student of two schools. Achievement test in mathematics developed by the researcher was administered in two school, one in urban area and other in rural area. The test was administered on 200 students. The data was collected from student and score obtained by each student in achievement test in mathematics.

- Variables: 1. Achievement score of Mathematics  
 2. Classificatory variable –  
 a) sex  
 b) strata

**Sample:** Surveyor, 200 student were selected as a sample for this study. 100 students from urban area at Srikantabati High school and other 100 students from rural area at Chhabghati K. D. Vidyalaya.

**Presentation & Interpretation:** The mean, standard deviation of the scores of students achievement in mathematics are given bellow –

**Table 1. - Particulars showing statistics of the scores obtained by the students (Strata Wise)**

Strata	N	Mean	SD
Urban	100	58.5	17.09
Rural	100	51.38	13.60

It can be seen from above table that mean and SD of Urban and Rural student were calculated and were found as 58.5 and 17.09 for urban and 51.38 and 13.60 for rural.

**Table 2. - Particulars showing statistics of the scores obtained by the students (Sex Wise)**

Sex	N	Mean	SD
Boys	100	58.6	16.55
Girls	100	51.1	14.08

It can be seen from above table that mean and SD of boys and girl's student were calculated and were found as 58.6 and 16.55 for boys and 51.1 and 14.08 for girls.

### CONCLUSION:

The test was administered particularly all on students of class- viii in two schools. The means and standard deviations of scores obtained by urban and rural (strata wise) and the boys and girls (sex wise) were found out respectively.

From the above discussion we see that the first school in urban area that is the students of Srikantabati High School is some what better than the students of Chhabghati K. D. Vidyalaya. And also boys are better than the girls.

It indicates that the loss of human resources due to lack of care from stand point of teaching and lack of proper trainee teacher and lack of teaching learning materials. Fear in mathematics is affect in an achievement in mathematics. If we take necessary remedial measures about the above mention problems, the poor achievement in mathematics shall be improved. Teachers should use appropriate teaching method, existing teaching aids and at the same time reinforcement them, to remove the phobia in mathematics of a student. The parents will provide moral support and correct guidance, for removing mathematics phobia of them.

### REFERENCE:

1. Aggarwal, S.M (2000), Teaching of Modern Mathematics, Dhanpat Rai Publishing Co. New Delhi
2. Garrett, H. E (1979), Statistics in Psychology and Education, Vakils, Fiffer and Simons Ltd. Hugu Building, 9 sport Road, Bombay- 400038.

3. Kaur, S (1985), Abstract concept in Different areas of Mathematics – A Factorial study, Ph. D. Edu. Jammu University.
4. Patel, N.R (1984), An investigation into the Mathematics Ability of pupils of class-ix and class-x in the context of some Affective Variables, Ph. D. Edu, Spn.
5. <http://www.ericdigests.org/2004-1/rural.htm>, (05/05/2016)
6. [https://www.google.co.in/?gws\\_rd=ssl#q=how+to+improve+students+achievement+in+mathematics+in+rural+area](https://www.google.co.in/?gws_rd=ssl#q=how+to+improve+students+achievement+in+mathematics+in+rural+area), (07/05/2016)
7. [https://www.researchgate.net/publication/248906815\\_Rural\\_and\\_Urban\\_Differences\\_in\\_Student\\_Achievement\\_in\\_Science\\_and\\_Mathematics\\_A\\_Multilevel\\_Analysis](https://www.researchgate.net/publication/248906815_Rural_and_Urban_Differences_in_Student_Achievement_in_Science_and_Mathematics_A_Multilevel_Analysis), (07/05/2016)
8. [http://www.zapmeta.co.in/ws?q=how%20to%20improve%20maths&asid=zm\\_in\\_gc1\\_07&mt=b&nw=g&de=c&ap=1o1](http://www.zapmeta.co.in/ws?q=how%20to%20improve%20maths&asid=zm_in_gc1_07&mt=b&nw=g&de=c&ap=1o1), (09/05/2016)



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