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JOURNAL AND OTHER ARTICLES

- Schemenner, R.W., Huber, J.C. and Cook, R.L. (1987), "Geographic Differences and the Location of New Manufacturing Facilities," Journal of Urban Economics, Vol. 21, No. 1, pp. 83-104.

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STUDENTS ATTITUDE TOWARDS MATHEMATICS AT SECONDARY LEVEL IN SIKKIM

RAJESH SINGH
RESEARCH SCHOLAR
OPJS UNIVERSITY
CHURU

ABSTRACT

Attitudes are the important determinants of academic success and achievement. In order to succeed in a subject, positive attitude towards a subject is a necessary prerequisite. This also applies to mathematics, especially in case of girls compared to boys. The main purpose of the study was to measure relationship of attitude towards mathematics with academic achievement in mathematics among secondary class students. Sample of the study consist of 500 students out of which 250 were boys and 250 were girls. The sample was chosen from three girls and three boys schools in east district of Sikkim. The obtained data were analyzed and interpreted using statistical tool of correlation coefficient. The result showed that boys differed in their mathematical achievement from girls. Boys achieved better results as compared to Girls. Attitude towards mathematics and achievement in mathematics did not go together.

KEYWORDS

attitude, mathematics, academic achievement, secondary education.

INTRODUCTION

Mathematics education is a protein to young human organism for any nation. As a vital tool for the understanding and application of science and technology, the discipline plays the vital role of a precursor and harbinger to the much needed and of course national development, which has become an imperative in the developing nations of the world. The choice of this topic is predicated on the current world trend and research emphasis on attitude issues following the millennium declaration of September 2000 (United Nations, 2000) which has as its goal, the promotion of attitude equity, the empowerment of students and the elimination of attitude inequality in basic and secondary education by 2005 and at all levels by 2015. In realization of the significant role of Mathematics to nation building, and as per the norms of CBSE norms mathematics is a compulsory subject at primary and secondary levels in Sikkim state. This was aimed at ensuring the inculcation of Mathematics literacy and the associated equipment with logical and abstract thinking needed for living, problem solving and educational furtherance. For full realization of this laudable objective of Mathematics education, subject mastery and demonstrated achievement should be evenly distributed across gender. Unfortunately, attitude inequality in education has remained a perennial problem of global scope (Bordo, 2001; UNESCO, 2003; Reid, 2003).

According to Reid (2006), attitudes express our evaluation of something or someone. They are based on our knowledge, feelings and behavior and they may influence future behavior. A target is essential for attitude. Our attitude is always directed towards something or someone. Attitudes are highly composite and they can affect learning comprehensively. Attitudes influence performance and performance in turn influences attitudes. Attitude will affect behavior, influencing what the learner selects from the environment, how he will react towards teachers, towards the material being used and towards the other students. This selection and the processing of the input of information, which follow it, are strongly influenced among other things on attitudes. There are four broad areas where we might wish to explore attitudes in relation to students. Attitudes toward subjects being studied;

- Attitudes towards self-study;
- Attitudes towards the implications arising from themes being studied;
- The so-called scientific attitudes

In general, attitudes in life allow us to

- Make sense of ourselves;
- Make sense of the world around us;
- Make sense of relationships.

A very useful analysis was carried out by Perry (1999), and this has led to a useful framework for analyzing students' attitude to work under the four headings:

- Student's perceptions about the nature of knowledge;
- Student's perceptions about their own role in learning;
- Student's perceptions about the nature and role of assessment.

Mathematics is as much a social issue as an educational issue. The educational issues are:

- The way in which students are taught mathematics and science and
- The way in which students are tested as well as the testing producers and questions.

The social issue is what students learn in their social environments, i.e., at home or in the workplace. Examining the roots of gender differences in learning may help find a solution to the problem that women are dramatically underrepresented in mathematics and science-based careers (Hyde and McKinley 1996).

One of the most common explanations for gender disparities in mathematics achievement has focused on attitude that students have towards mathematics. Several studies have reported that there are gender differences in attitude towards mathematics with girls showing more negative attitudes than boys. In general, most of the studies reported that, compared with boys, girls lacked confidence, had debilitating causal attribution patterns, perceived mathematics as a male domain, and were anxious about mathematics (Vermeer et al, 2000). The causes of the gender difference were found to be multifaceted.

REVIEW OF LITERATURE

Fisher and Rickards (1998) found that students' attitude towards mathematics tended to be more positive in classroom where students perceived greater leadership and helping/friendly behaviors in their teachers, and more negative in their classrooms where students perceived their teachers as admonishing and enforcing strict behaviors. Other researchers have compared the effect of separate (single-sex) and coeducational classrooms upon students' attitude (Norton and Rennie, 1998).

Studies that compared gender differences in mathematics' self confidence have mostly reported that girls had lower self-confidence in mathematics than boys (Case et al, 1997; Norton and Rennie, 1998). In some cases, boys were more confident than girls even when their mathematics achievement was similar to that of girls (Casey et al, 1997). Vermeer et al (2000) have further shown that the gender differences in self confidence were more marked for application problems than computation problems, with girls showing significantly lower confidence for application problem. Despite such consistent findings of girls' low confidence in mathematics, studies of classroom environment have shown that the girls' confidence in mathematics improved greatly in classes which actively involved girls in the learning of mathematics (Boaler, 2000).

Bono (1991) in his study girls would enjoy math, increase their time on math tasks, and have positive emotional reactions to math if math were taught in a cooperative setting. The study explored the impact of cooperative learning on sixth grade girls. The results showed that girls had more positive attitudes towards math when it was taught in cooperative settings. As far as differences in attitude development are concerned, girls' positive attitudes towards mathematics decline

as they grow older. Initially girls have more positive attitudes towards mathematics than boys, but as they continue in school, girls' attitudes become more negative. In order to improve girls' performance in math, teachers need to facilitate positive attitude in girls towards math. (Swetman, 1995). Usual indications about the girls reveal that they are weak in mathematics as compared to boys. Many studies done on the topics in the foreign countries but in Sikkim, the studies are very few. In fact, teachers and parents may be responsible for low achievement of girls' in mathematics. Many teachers, especially female, actively encourage males to persist in mathematics than girls. Parents also feel that girls have less inclination for this subject because of its difficulty and complexity. It requires also extra attention, stamina and intelligence in which girls never come up to the standard. Since learners engaging in mathematics activities (including participating in mathematics competitions) are affected by external and internal influences on their perceptions and attitudes towards mathematics, it was felt that an investigation into the relationship between attitude toward mathematics and performance in mathematics was important. Gender related difference in attitudes towards mathematics was also investigated.

OBJECTIVES OF THE STUDY

1. To evaluate gender differences in attitude and academic achievement towards mathematics.
2. To find out the relationship between attitude and academic achievement in mathematics.

HYPOTHESES

- Ho₁ There is no significant difference between mean attitude scores of boys and girls towards mathematics at the secondary level.
 Ho₂ There is no significant difference between mean achievement scores of boys and girls in mathematics at secondary level.
 Ho₃ There is no significant relationship between mean attitude scores and academic achievement of girls towards mathematics at the secondary level.
 Ho₄ There is no significant relationship between mean attitude scores and academic achievement of boys at secondary level.

RESEARCH METHOD

Sample: A sample of 500 students was selected through two-stage cluster sampling. The procedure of selecting sample was that, at the first stage six schools three boys and three girls' schools were randomly selected. Then 250 girls and 250 boys were randomly chosen from these schools.

Research Instrument: The design of this research study was questionnaire survey. In order to measure the variable of attitude towards mathematics, a 25 item questionnaire was self developed in the light of available literature on the subject another instrument, developed by Steinback and Gwizdala. Each item was to be responded on a three point scale bearing the categories of agree, disagree and undecided. Questionnaire adequately represented the construct of attitude towards mathematics. In addition, six items were included about the bio data of each student such as name of the students, class, family size, birth order, socio economic background (upper, lower, middle).

Scoring of Data: The student responses on each item were scored by using the score of 1 for 'disagree', 2 for 'undecided' and 3 for 'agree'. The aggregate attitude scores were calculated for each student by adding the marks on each item of the questionnaire.

INTERPRETATION OF DATA

TABLE 1: SIGNIFICANCE OF DIFFERENCE BETWEEN MEAN ATTITUDE TOWARDS MATHEMATICS SCORE AMONG SECONDARY LEVEL BOYS AND GIRLS

Group	N	Mean	SD	SE	T	P
Girls	250	59.72	0.45	0.24	12.71	<.05
Boys	250	62.34	0.27			

df: 498, t-at.05 level: 1.960

Table 1 shows the obtained t value is 12.71 whereas the table value at.05 level of significance showing the real difference between mean attitude scores of boys and girls in mathematics is, therefore significant, so there is difference between mean attitude scores of boys and girls in mathematics.

TABLE 2: SIGNIFICANCE OF DIFFERENCE BETWEEN MEAN ACHIEVEMENT TOWARDS MATHEMATICS SCORE AMONG SECONDARY LEVEL BOYS AND GIRLS

Group	N	Mean	SD	SE	T	P
Girls	250	57.25	1.01	160.27	.02	>.05
Boys	250	60.12	0.85			

df:498, t-at.05 level:1.960

Table 2 shows the obtained t value is.02 whereas the table value at.05 level of significance showing the real difference between mean achievement scores of boys and girls in mathematics is, therefore non- significant, so there is no difference between mean attitude scores of boys and girls in mathematics

TABLE 3: SIGNIFICANCE OF CORRELATION ATTITUDE SCORES TOWARDS MATHEMATICS AND ACHIEVEMENT SCORE IN MATHEMATICS WITH RESPECT TO SECONDARY LEVEL GIRLS

Variable	N	r	P
Attitude achievement	250	0.32	<0.05

df:298, r-eat.05 level:.1946

Table 3 illustrates, the correlation coefficient between attitude scores and academic achievement scores of the total sample students of girls belonging to Government schools of girls was .32 whereas the table value of correlation coefficient was .1946 at .05 level of significance. The correlation coefficient between the variable of attitude and academic achievement was, therefore significant

TABLE 4: SIGNIFICANCE OF CORRELATION BETWEEN ATTITUDE SCORES TOWARDS MATHEMATICS AND ACADEMIC ACHIEVEMENT SCORES IN MATHEMATICS WITH RESPECT TO SECONDARY LEVEL BOYS.

Variable	N	r	P
Attitude achievement	250	0.13	>.05

df:198, r-at.05 level:.1946

Table 4 illustrates, the correlation coefficient between attitude scores and academic achievement scores of the total sample students of girls belonging to Government schools of boys was .13 whereas the table value of correlation coefficient was .1946 at .05 level of significance. The correlation coefficient between the variable of attitude and academic achievement was, therefore non- significant.

CONCLUSION AND DISCUSSION

The Study has revealed following points: In general, boy's students tended to show better performance towards mathematics in examinations as compared to girls students. Though there is positive correlation between attitude towards mathematics and mathematics achievement but the relationship was significant only in case of boys. In the group of girls, the coefficient of correlation could not reach significant value. The result show that boys differed in their mathematical achievement from girls. Boys achieved better results as compared to girls. Attitude towards mathematics and achievement in mathematics did not go together. Abiam and Odok (2006) found no significant relationship between gender and achievement in number and numeration, algebraic and statistics. On the contrary,

Opolot-Okurut (2005) found that for all the attitudinal variables (anxiety, confidence and motivation), males had higher mean scores than females. That is, the differences in student attitude towards mathematics based on gender were confirmed. A lot need to be done to fill this gender gap in mathematics achievement. Male and female students should make the competitive environment, coordinate and exchange their knowledge from one another in mathematics teaching and learning. Girls students should be informed the importance of mathematics and it is the basic tool for further education. Mathematics teaching and evaluation strategies should be bias-free. This way, males and females will tend to see themselves as equals, capable of competing and collaborating in classroom activities.

REFERENCES

1. D. Bono (1991) The impact of cooperative learning on suzy and janie's attitude about math/ research report in Virginia, 137-167.
2. D. Fisher, and T. Rickards (1998) Associations between teacher-student interpersonal behavior and student attitude towards mathematics. *Mathematics Education Research Journal*, 10(1: 3-15).
3. D. Swetman (1995) Rural Elementary Students' attitudes toward mathematics, rural education. *International Journal of Computer Technology and Application* V.16 no.3, 20-22.
4. H. Vermeer, M. Boekaerts, and G. Seegers (2000) Motivational and gender differences: Sixth- grade students' mathematical problem solving behavior. *Journal of Educational Psychology*, 92(2:308-315).
5. Hyde and McKinley (1996) Gender Differences in Human Cognition, www.google.com.pk/books?isbn (132).
6. J. Boaler (2000) So girls don't really understand mathematics? Dangerous dichotomous in gender research. Paper Presented at the 9th International Conference of Mathematics Education (ICME-9), Tokyo.
7. M.B. Casey, R.L. Nuttalla, and E. Pezaris (1997) Mediators of Gender Differences in Mathematics College Entrance Test Scores: A Comparison of Special Skills with Internalized Beliefs and Anxieties. *Developmental Psychology* 33(4: 669-680).
8. N. Ried (2006) Getting Started in Pedagogical Research in the Physical Sciences, Higher Education Academy Physical Sciences Centre, University of Glasgow, UK (32-60).
9. S.J. Norton, and I. J. Rennie (1998) Student's attitude towards mathematics in single-sex and Co- educational schools. *Mathematics Educational Research Journal*, 10(1:16-36).
10. W. G. Perry (1999) Forms of intellectual and ethical development in the college years: a scheme. *Jossey-Bass Higher and Adult Education Series*.

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