



## FACTORS THAT INFLUENCE STUDENTS IN MATHEMATICS ACHIEVEMENT

Chanchal, Dept. of Education

**ABSTRACT:** The purpose of this study is to explore the level of attitude towards problem solving and mathematics achievement among students from schools in Haryana. This study also observes the relationship between the level of patience, confidence and Swillingness towards problem solving and mathematics achievement. This research is a survey study that is conducted on 153 semester one students at diploma and bachelor program. This research uses one set of questionnaire to gather data. The data is then analyzed using The Statistical Package for Social Science (SPSS). The descriptive and inferential statistics analyses are used to analyze all the research questions. The research findings reveal that the level of patience, confidence and willingness towards problem solving are medium. The findings also show that there is significant relationship between the level of patience towards problem solving and mathematics achievement. On the other hand, the finding shows that there is no significant relationship between the level of confidence and willingness towards problem solving and mathematics achievement. This research also reflects that there is significant relationship between attitude (patience, confidence and willingness) towards problem solving and mathematics achievement. Finally the research draws conclusion and recommendation based on students' attitude towards problem solving and the ways to improve students' achievement in mathematics.

ISSN : 2348-5612 © URR



**Key words:** Attitude, patience, confidence, problem solving in mathematics, mathematics achievement.

**Introduction:** In Secondary school education, Mathematics is considered to be a dominant factor which plays a vital role in the development of science and technology as well as in almost all fields of study. Therefore in the present study the researcher has considered mathematics achievement as a pertinent field of study. Also from review of different literatures it is noted that attitude of the students towards mathematics and their family climate have influences on the academic achievement of the students. Out of all the school subject mathematics occupies an important place in the school curriculum. Teachers generally teach with the help of lecture method and the student's learn the subject while giving stress on their memory. In this type of teaching teacher teach the students without giving you importance to the problem solving ability in mathematics, mathematical interest and parental encouragement. Therefore there is need to find out the relationship of mathematics achievement of the students with their problem solving ability in mathematics, mathematical interest and parental encouragement. So it is very important to make a study on mathematics achievement of secondary school students with their problem solving ability in mathematics, mathematical interest and parental encouragement in the context of our own society.

**Objective:** 1. what is the students' attitude towards problem solving?  
2. What is the relationship between students' attitude towards problem solving and their achievement?

### Hypotheses of the study:

Hypotheses:

1. There is no significant mean difference between gender and students' attitude towards problem solving.
2. There is no significant relationship between patience towards problem solving and their achievement

**A. Patience towards problem solving and mathematics achievement:-**