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গবেষণা পত্রিকা



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ড° ললিত চন্দ্র বাভা  
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**A REVIEW BASED STUDY ON PROBLEM SOLVING ABILITY IN MATHEMATICS WITH  
RESPECT OF GENDER DIFFERENCES AMONG SCHOOL STUDENTS**

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**ABSTRACT**

The present study attempted to review empirical studies from 2001 to 2020 investigating to find out the influence of gender difference among school students in their problem solving ability in Mathematics. In deed the research articles published in Indian and International Journals with reference to the context of research have been reviewed. The present review revealed that most studies found out that male students' problem solving ability was better than that of their counterparts despite a study found that there was no gender difference and a couple of studies found that female students were better than their counterparts in problem solving ability in Mathematics.

**Keywords:** Mathematical Problem Solving Ability, School Students, Gender Difference

**I. INTRODUCTION**

The problem solving ability is the strong motivation and path way to redesign the school curriculum. The educators produced models and other materials that are set to increasing the usefulness of student knowledge on problem based learning which was designed the way of connecting the curriculum and problem solving practice. According to Polya, 1962, P(117), Kayan, 2007 the problem solving is a systematic way to search consciously for take some actions to concentrate with clear ideas. Schoenfeld, 1992 adapted Polya definition in mathematics and explained the ability of problem solving as a process wherein students understand the questions and apply to the proper analysis to encounter and to get the answers. In 1940 the joint committee of mathematical association of America and the National Council of Teachers of Mathematics (NCTM) recommended that curriculum was not the solution to desire the skill but it also framed with curriculum along understanding the problem, choose the strategies, implement the plan and checks the plan and solution were important to develop problem solving ability in Mathematics. Mason, 2003 suggested that mathematics problem solving ability is important for students as problem solving beliefs increased student achievement in mathematics. The main steps of problem solving ability understand the problem, application, and identify the plan for solution and analyze the results (Jomassen, 2010). The problem solving process is the systematic careful analysis to understand the problem and to identify the solution. It is ability to think and reason in different complex situation. Problem solving ability is highly correlated with intelligence, reasoning ability and mathematical ability. There are four cognitive phases of problem solving like Planning, Integrating, Translating and Execution by Gallagher, Detisi, Holst, Mc Gillicuddu – Detisi, Morel and Cahala, 2000, Meeyar(2003). It is in this line of thinking that the present study is committed to review significant research studies carried out in problem solving ability of school students in Mathematics from 2010 to 2020 to ascertain the gender difference.

**NEED FOR THE STUDY**

Problem Solving is about solving problems. And we'll restrict ourselves to thinking about mathematical problems here even though problem solving in school has a wider goal. When you think about it, the whole aim of education is to equip children to solve problems, but not only in math. Aim of the new Mathematics Curriculum therefore, problem solving contributes to the generic skill of problem solving in daily life. Problem Solving also contributes to mathematics itself. It is part of one whole area