

Chapter - V

SUMMARY AND FINDINGS

CHAPTER-5

SUMMARY AND FINDINGS

This chapter presents a brief summary and findings of the study. This is followed by the educational implication based on the findings of the study, suggestion for further research on related topic has also been out lined.

Variables of the study:

Major Variables:

- Problem solving ability
- Mathematics achievement

Demographic Variables:

- Gender
- School Type
- Father Education
- Father Occupation
- Mother Education
- Mother Occupation

The researcher has used two tools test. One is the problem solving ability test which is a standardized test prepared by Dr. R R Garg (2004). Another one is the achievement test which is self made tool. It is prepared on the basis of text book of 7th standard students.

For findings the sample from private and Government schools of Bhopal district was taken. One section from each school was taken. The

number of students present in one section were finally taken as the sample size which came out to be 300. ANOVA and 't' test was used to find the results.

OBJECTIVES :

- (1) To find out difference between students of government and private school students in respect to their problem solving ability.
- (2) To find out difference between students of government and private school students in respect to their achievement in mathematics.
- (3) To find out difference between boys and girls with respect to their problem solving ability.
- (4) To find out difference between boys and girls with respect to their achievement in mathematics.
- (5) To find the influence of school on the problem solving ability of the students.
- (6) To find the influence of school on the achievement of the students in mathematics
- (7) To find out the influence of father's education on the problem solving ability of the students.
- (8) To find out the influence of fathers' education on the achievement of the students in mathematics.
- (9) To find out the influence of fathers' occupation on the problem solving ability of the students.

- (10) To find the influence of fathers' occupation on the achievement of the students in mathematics.
- (11) To find the influence of mothers' education on the problem solving ability of the students.
- (12) To find out the influence of mothers' education on the achievement of the students in mathematics.
- (13) To find the influence of mothers' occupation on the problem solving ability of the students.
- (14) To find the influences of mothers' occupation on the achievement of the students in mathematics.

HYPOTHESES :

- (1) There is no significant difference between students of government and private schools in respect to their problem solving ability.
- (2) There is no significant difference between students of government and private school in respect of their achievement in Mathematics.
- (3) There is no significant difference between boys and girls in respect of their problem solving ability.
- (4) There is no significant difference between boys and girls in respect of their achievement in Mathematics.
- (5) There is no significant difference between student belonging to different school in respect of their problem solving ability.

- (6) There is no significant difference between student belonging to different school in respect of their achievement in Mathematics.
- (7) There is no significant difference between different categories of father education of the students in respect of their problem solving ability.
- (8) There is no significant difference between different categories of father education of the students in respect of their achievement in Mathematics.
- (9) There is no significant difference between different categories of father occupation of the students in respect of their problem solving ability.
- (10) There is no significant difference between different categories of father occupation of the students in respect of on their achievement in Mathematics.
- (11) There is no significant difference between different categories of mother education of the students in respect of their problem solving ability.
- (12) There is no significant difference between different categories of mother education of the students in respect of on their achievement in Mathematics.
- (13) There is no significant difference between different categories of mother occupation of the students in respect of their problem solving ability.

- (14) There is no significant difference between different categories of mother occupation of the students in respect of their achievement in Mathematics.

Major Findings:-

- (1) Problem solving ability of government school students and private school students differ.
- (2) Achievement in Mathematics of private school students and government school students differ.
- (3) No significant difference was found between boys & girls with respect to their problem solving to the ability.
- (4) No significant difference was found between boys & girls with respect to their achievement in Mathematics. .
- (5) There is significant difference among students belonging to various school selected in the sample with respect to problem solving ability and achievement in Mathematics.
- (6) Fathers' education has a significant influence on the problem solving ability of the students.
- (7) It was found that father's education had / has a significant influence on students achievement in Mathematics.
- (8) Father occupation has no significant influence on problem solving ability of the student.
- (9) It was found that fathers' occupation had / has a significant influence on students achievement in Mathematics.

- (10) Mothers' education has significant influence on students problem solving ability and their achievement in Mathematics. This indicates that problem solving ability and achievement in Mathematics of students whose mothers' education is post graduation and graduation is better as compare to those whose mothers' education is school education.
- (11) Mothers' occupation has no significant influence on the problem solving ability of the students.
- (12) There is a significant influence of mothers' occupation on the achievement of the students in Mathematics. It indicates that students whose mothers' occupation is teacher (A.M. = 14.81) their achievement in Mathematics is better as compare to those whose mothers' are housewife (A.M. = 12.47) and in job (A.M. = 12.09).

Implication :

From the present study we get an indication that problem solving ability and mathematic achievement of students studying in government schools is better than their counterpart studying in private schools. This finding requires attention of private school teachers that they should focus more on their students problem solving ability.

Another indication which we get from this study is that girls and boys do not differ both in terms of problem solving ability and achievement in mathematics which is a positive feedback for the mathematics curriculum. This show that there is a similar development in both boys and girls.

Student with post-graduate and graduate father have better problem solving ability and achievement in mathematics than those student with only school educated father. Therefore, teacher should pay more attention towards such kind of students.

From the above discussion the researcher conclude that teacher should adopt such a methods that the problem solving ability of the students increases so that their achievements in mathematics also increases.

Suggestions for further study :

- * A study can be undertaken with large sample for drawing authentic generalization.
- * Relationship between mathematics achievement and some other fundamental concepts can be studied.
- * A study can be carried out for different class levels and different examination boards.
- * In place of problem solving ability some other test can also be used like reasoning ability.