OBJECTIVE OF THE STUDY
1. To study the level of achievement motivation of IX standard students.
2. To study the level of achievement in Mathematics IX standard students.
3. To find out the relationship between achievement motivation and level of achievement in Mathematics of IX standard boys and girls.

STATEMENT OF HYPOTHESIS
The following hypotheses have been framed to attain the above said objectives:
1. The level of achievement motivation of IX standard students is high.
2. The level of achievement in Mathematics of IX standard students is high.
3. There is no significant relationship between achievement motivation and achievement in Mathematics of IX standard boys and girls.

METHODOLOGY
A normative survey was undertaken.

SAMPLE
The population of the study comprised of IX students from nine schools in Pondicherry. A sample of 300 students was selected from nine schools in Pondicherry by random sampling technique. Out of this 140 were boys and 160 were girls.

RESEARCH TOOLS
The following tools have been used for collecting data.
1. Achievement motivation questionnaire by Bishwanath Mukherji.
2. Achievement in Mathematics in the Quarterly Exam

ANALYSIS AND INTERPRETATIONS
Mean, median, mode and standard deviation of Achievement motivation scores and Achievement in Mathematics for whole sample is given in Figure-1.

Figure-1

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Median</th>
<th>Mode</th>
<th>S.D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Achievement motivation</td>
<td>300</td>
<td>19.58</td>
<td>19</td>
<td>19</td>
<td>5.01</td>
</tr>
<tr>
<td>Achievement in Math</td>
<td>300</td>
<td>69.98</td>
<td>71</td>
<td>70</td>
<td>17.27</td>
</tr>
</tbody>
</table>
From Figure-1, it is concluded that the mean and standard deviation of achievement motivation scores of IX standard students are 19.58 and 5.01. It is found that the mean score of achievement motivation falls in the above average level. Therefore the level of achievement motivation of the entire sample is above average. Also, it is found that the mean, median, mode and standard deviation of Achievement in Mathematics are 69.68, 71, 70 and 17.27. The level of Achievement in Mathematics is found to be above average.

Correlation coefficient between achievement motivation and achievement in Mathematics is given in Figure -2.

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Co-efficient of correlation (r)</th>
<th>Significance (at 0.05 level)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Achievement</td>
<td>300</td>
<td>0.718</td>
<td>S</td>
</tr>
<tr>
<td>motivation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Achievement</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

From Figure-2, it is found that the correlation co-efficient which is calculated to be 0.718 is greater than that of the table value at 0.05 level. Hence there is a significant relationship between Achievement motivation and achievement in Mathematics.

**Mean and standard deviation of achievement motivation and Achievement in Mathematics category-wise**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Category</th>
<th>Sub-groups</th>
<th>N</th>
<th>Mean</th>
<th>S.D</th>
<th>M.D</th>
<th>'t' value</th>
<th>Sig. level at 0.05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Achievement</td>
<td>Sex</td>
<td>Boys</td>
<td>140</td>
<td>19.14</td>
<td>4.6</td>
<td>0.73</td>
<td>1.27</td>
<td>NS</td>
</tr>
<tr>
<td>motivation</td>
<td></td>
<td>Girls</td>
<td>160</td>
<td>19.87</td>
<td>5.39</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Achievement</td>
<td>Sex</td>
<td>Boys</td>
<td>140</td>
<td>67.51</td>
<td>18.37</td>
<td>-4.9</td>
<td>2.5</td>
<td>S</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td>Girls</td>
<td>160</td>
<td>72.41</td>
<td>15.8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

From Figure-3 it is observed that the boys and girls do not differ in their Achievement Motivation but they differ in their Achievement in Mathematics. The mean differences between the above mentioned groups are significant at 0.05 level.

**CONCLUSION**

1. The level of achievement motivation of IX standard students is above average.
2. The level of Achievement in Mathematics of IX standard students is high.
3. The IX Standard boys and girls of Puducherry region do not differ significantly in their Achievement motivation.
4. The IX Standard boys and girls of Puducherry region differ significantly in their Achievement in Mathematics.
5. It is found that boys and girls nearly have equal level of achievement motivation and Achievement in Mathematics.

**SUGGESTIONS FOR FURTHER RESEARCH**

1. The study may be undertaken using the students of lower classes as subjects for the study.
2. Achievement motivation in relation to other variable such as personality, adjustments and intelligence may be undertaken.

**REFERENCES**