



### District Report Card: 2017


|                      |                               |
|----------------------|-------------------------------|
| <b>State:</b> Sikkim | <b>District:</b> South Sikkim |
| <b>Class:</b> 8      | <b>Subject:</b> Mathematics   |
| <b>Schools:</b> 48   | <b>Students:</b> 1077         |


### Participation/Coverage


#### Students

|  |        |       |        |       |
|--|--------|-------|--------|-------|
| <div>GENDER</div> <div></div> | Boys   |       | Girls  |       |
|  | Number | %     | Number | %     |
|  | 527    | 48.93 | 550    | 51.07 |

|   |        |       |        |      |
|---|--------|-------|--------|------|
| <div>AREA</div> <div></div> | Rural  |       | Urban  |      |
|   | Number | %     | Number | %    |
|   | 1024   | 95.08 | 53     | 4.92 |

|  |        |      |        |       |        |       |        |       |
|--|--------|------|--------|-------|--------|-------|--------|-------|
| <div>CATEGORY</div> <div></div> | SC     |      | ST     |       | OBC    |       | GEN    |       |
|  | Number | %    | Number | %     | Number | %     | Number | %     |
|  | 78     | 7.24 | 358    | 33.24 | 486    | 45.13 | 155    | 14.39 |

|  |    |    |    |      |    |     |
|--|----|----|----|------|----|-----|
| <div>CWSN</div> <div></div> | LD | VI | HI | S&LD | ID | Oth |
|  | 5  | 3  | 6  | 18   | 3  | 20  |

|  |            |        |                  |      |
|--|------------|--------|------------------|------|
| <div>Management</div> <div></div> | Government |        | Government-aided |      |
|  | Number     | %      | Number           | %    |
|  | 1077       | 100.00 | 0                | 0.00 |

### Average Performance of Students in Mathematics (%)

| Overall | Gender |        | Area  |       | Management |       | Social Group |       |       |       |
|---------|--------|--------|-------|-------|------------|-------|--------------|-------|-------|-------|
|         | Male   | Female | Rural | Urban | Govt.      | Aided | SC           | ST    | OBC   | GEN   |
| 29.24   | 28.78  | 29.68  | 29.02 | 33.46 | 29.24      | 0.00  | 28.38        | 28.36 | 29.95 | 29.51 |

## Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description  | Average Performance(%) |
|-------------------|--|------------------------|
| M601              | Solves problems involving large numbers by applying appropriate operations   | 29.03                  |
| M606              | Solves problems on daily life situations involving addition and subtraction of fractions / decimals                                    | 23.97                  |
| M620              | Finds out the perimeter and area of rectangular objects in the surroundings like floor of the class room, surfaces of a chalk box etc. | 20.92                  |
| M621              | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them                                | 17.60                  |
| M702              | Interprets the division and multiplication of fractions  | 30.55                  |
| M705              | Solves problems related to daily life situations involving rational numbers  | 27.76                  |
| M706              | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers                           | 23.94                  |
| M707              | Adds/subtracts algebraic expressions   | 33.98                  |
| M710              | Solves problems related to conversion of percentage to fraction and decimal and vice versa   | 18.23                  |
| M717              | Finds out approximate area of closed shapes by using unit square grid/graph sheet  | 28.65                  |
| M719              | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode                        | 44.63                  |
| M721              | Interprets data using bar graph  | 34.25                  |
| M801              | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns                      | 23.20                  |
| M802              | Finds rational numbers between two given rational numbers  | 33.89                  |
| M803              | Proves divisibility rules of 2, 3, 4, 5, 6, 9 and 11   | 34.46                  |
| M804              | Finds squares, cubes, square roots and cube roots of numbers using different methods   | 29.28                  |
| M808              | Uses various algebraic identities in solving problems of daily life  | 37.20                  |
| M812              | Verifies properties of parallelogram and establishes the relationship between them through reasoning                                   | 23.15                  |
| M818              | Finds surface area and volume of cuboidal and cylindrical object   | 26.70                  |
| M819              | Draws and interprets bar charts and pie charts   | 33.05                  |

| Range of Performance of Students who Answered Correctly |       |           |       |           |      |           |      |
|---|-------|-----------|-------|-----------|------|-----------|------|
| Below 30%   |       | 30% - 50% |       | 50% - 75% |      | Above 75% |      |
| Number  | %     | Number    | %     | Number    | %    | Number    | %    |
| 565   | 52.46 | 426       | 39.55 | 85        | 7.89 | 1         | 0.09 |

## Lowest Performing Learning Outcomes (LOs)

- 1 - Arranges given/collected information in the form of table, pictograph and bar graph and interprets them (17.60)
- 2 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (18.23)
- 3 - Finds out the perimeter and area of rectangular objects in the surroundings like floor of the class room, surfaces of a chalk box etc. (20.92)

4 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (23.15)

5 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (23.20)