



### District Report Card: 2017


|                         |                             |
|-------------------------|-----------------------------|
| <b>State:</b> Rajasthan | <b>District:</b> Bikaner    |
| <b>Class:</b> 8         | <b>Subject:</b> Mathematics |
| <b>Schools:</b> 51      | <b>Students:</b> 1283       |


### Participation/Coverage


#### Students

| <div>GENDER</div> <div></div> | Boys   |       | Girls  |       |
|--|--------|-------|--------|-------|
|  | Number | %     | Number | %     |
|  | 546    | 42.56 | 737    | 57.44 |

| <div>AREA</div> <div></div> | Rural  |       | Urban  |       |
|---|--------|-------|--------|-------|
|   | Number | %     | Number | %     |
|   | 1126   | 87.76 | 157    | 12.24 |

| <div>CATEGORY</div> <div></div> | SC     |       | ST     |      | OBC    |       | GEN    |       |
|--|--------|-------|--------|------|--------|-------|--------|-------|
|  | Number | %     | Number | %    | Number | %     | Number | %     |
|  | 387    | 30.16 | 3      | 0.23 | 642    | 50.04 | 251    | 19.56 |

| <div>CWSN</div> <div></div> | LD | VI | HI | S&LD | ID | Oth |
|--|----|----|----|------|----|-----|
|  | 2  | 3  | 3  | 5    | 1  | 18  |

| <div>Management</div> <div></div> | Government |        | Government-aided |      |
|--|------------|--------|------------------|------|
|  | Number     | %      | Number           | %    |
|  | 1283       | 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   |
| 51.51   | 53.13  | 50.31  | 51.89 | 48.75 | 51.51      | 0.00  | 50.70        | 26.67 | 53.44 | 48.13 |

## Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description  | Average Performance(%) |
|-------------------|--|------------------------|
| M601              | Solves problems involving large numbers by applying appropriate operations   | 45.16                  |
| M606              | Solves problems on daily life situations involving addition and subtraction of fractions / decimals                                    | 63.59                  |
| 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. | 61.00                  |
| M621              | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them                                | 45.94                  |
| M702              | Interprets the division and multiplication of fractions  | 45.75                  |
| M705              | Solves problems related to daily life situations involving rational numbers  | 49.96                  |
| M706              | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers                           | 48.99                  |
| M707              | Adds/subtracts algebraic expressions   | 66.41                  |
| M710              | Solves problems related to conversion of percentage to fraction and decimal and vice versa   | 50.08                  |
| M717              | Finds out approximate area of closed shapes by using unit square grid/graph sheet  | 36.25                  |
| M719              | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode                        | 52.47                  |
| M721              | Interprets data using bar graph  | 68.58                  |
| M801              | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns                      | 40.59                  |
| M802              | Finds rational numbers between two given rational numbers  | 55.05                  |
| M803              | Proves divisibility rules of 2, 3, 4, 5, 6, 9 and 11   | 61.41                  |
| M804              | Finds squares, cubes, square roots and cube roots of numbers using different methods   | 61.12                  |
| M808              | Uses various algebraic identities in solving problems of daily life  | 44.17                  |
| M812              | Verifies properties of parallelogram and establishes the relationship between them through reasoning                                   | 45.50                  |
| M818              | Finds surface area and volume of cuboidal and cylindrical object   | 30.02                  |
| M819              | Draws and interprets bar charts and pie charts   | 46.61                  |

| Range of Performance of Students who Answered Correctly |       |           |       |           |       |           |       |
|---|-------|-----------|-------|-----------|-------|-----------|-------|
| Below 30%   |       | 30% - 50% |       | 50% - 75% |       | Above 75% |       |
| Number  | %     | Number    | %     | Number    | %     | Number    | %     |
| 275   | 21.43 | 293       | 22.84 | 535       | 41.70 | 180       | 14.03 |

## Lowest Performing Learning Outcomes (LOs)

- 1 - Finds surface area and volume of cuboidal and cylindrical object (30.02)
- 2 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (36.25)
- 3 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (40.59)

- 4 - Uses various algebraic identities in solving problems of daily life (44.17)
- 5 - Solves problems involving large numbers by applying appropriate operations (45.16)