



### District Report Card: 2017


|                              |                             |
|------------------------------|-----------------------------|
| <b>State:</b> Madhya Pradesh | <b>District:</b> Bhind      |
| <b>Class:</b> 8              | <b>Subject:</b> Mathematics |
| <b>Schools:</b> 51           | <b>Students:</b> 1020       |


### Participation/Coverage


#### Students

|                                                                                                                |        |       |        |       |
|----------------------------------------------------------------------------------------------------------------|--------|-------|--------|-------|
| <div>GENDER</div> <div></div> | Boys   |       | Girls  |       |
|                                                                                                                | Number | %     | Number | %     |
|                                                                                                                | 488    | 47.84 | 532    | 52.16 |

|                                                                                                               |        |       |        |       |
|---------------------------------------------------------------------------------------------------------------|--------|-------|--------|-------|
| <div>AREA</div> <div></div> | Rural  |       | Urban  |       |
|                                                                                                               | Number | %     | Number | %     |
|                                                                                                               | 885    | 86.76 | 135    | 13.24 |

|                                                                                                                    |        |       |        |      |        |       |        |       |
|--------------------------------------------------------------------------------------------------------------------|--------|-------|--------|------|--------|-------|--------|-------|
| <div>CATEGORY</div> <div></div> | SC     |       | ST     |      | OBC    |       | GEN    |       |
|                                                                                                                    | Number | %     | Number | %    | Number | %     | Number | %     |
|                                                                                                                    | 341    | 33.43 | 3      | 0.29 | 485    | 47.55 | 191    | 18.73 |

|                                                                                                                |    |    |    |      |    |     |
|----------------------------------------------------------------------------------------------------------------|----|----|----|------|----|-----|
| <div>CWSN</div> <div></div> | LD | VI | HI | S&LD | ID | Oth |
|                                                                                                                | 0  | 1  | 1  | 0    | 0  | 9   |

|                                                                                                                      |            |       |                  |      |
|----------------------------------------------------------------------------------------------------------------------|------------|-------|------------------|------|
| <div>Management</div> <div></div> | Government |       | Government-aided |      |
|                                                                                                                      | Number     | %     | Number           | %    |
|                                                                                                                      | 978        | 95.88 | 42               | 4.12 |

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

| Overall | Gender |        | Area  |       | Management |       | Social Group |       |       |       |
|---------|--------|--------|-------|-------|------------|-------|--------------|-------|-------|-------|
|         | Male   | Female | Rural | Urban | Govt.      | Aided | SC           | ST    | OBC   | GEN   |
| 37.19   | 38.31  | 36.17  | 37.72 | 33.73 | 37.70      | 25.24 | 39.69        | 13.33 | 34.97 | 38.74 |

## Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description                                                                                                                            | Average Performance(%) |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| M601              | Solves problems involving large numbers by applying appropriate operations                                                             | 32.49                  |
| M606              | Solves problems on daily life situations involving addition and subtraction of fractions / decimals                                    | 43.44                  |
| 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. | 38.60                  |
| M621              | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them                                | 33.46                  |
| M702              | Interprets the division and multiplication of fractions                                                                                | 35.49                  |
| M705              | Solves problems related to daily life situations involving rational numbers                                                            | 37.35                  |
| M706              | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers                           | 34.38                  |
| M707              | Adds/subtracts algebraic expressions                                                                                                   | 51.18                  |
| M710              | Solves problems related to conversion of percentage to fraction and decimal and vice versa                                             | 38.11                  |
| M717              | Finds out approximate area of closed shapes by using unit square grid/graph sheet                                                      | 31.90                  |
| M719              | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode                        | 43.31                  |
| M721              | Interprets data using bar graph                                                                                                        | 45.78                  |
| M801              | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns                      | 22.79                  |
| M802              | Finds rational numbers between two given rational numbers                                                                              | 31.43                  |
| M803              | Proves divisibility rules of 2, 3, 4, 5, 6, 9 and 11                                                                                   | 52.64                  |
| M804              | Finds squares, cubes, square roots and cube roots of numbers using different methods                                                   | 43.42                  |
| M808              | Uses various algebraic identities in solving problems of daily life                                                                    | 42.04                  |
| M812              | Verifies properties of parallelogram and establishes the relationship between them through reasoning                                   | 31.09                  |
| M818              | Finds surface area and volume of cuboidal and cylindrical object                                                                       | 20.83                  |
| M819              | Draws and interprets bar charts and pie charts                                                                                         | 27.94                  |

| Range of Performance of Students who Answered Correctly |       |           |       |           |       |           |      |
|---------------------------------------------------------|-------|-----------|-------|-----------|-------|-----------|------|
| Below 30%                                               |       | 30% - 50% |       | 50% - 75% |       | Above 75% |      |
| Number                                                  | %     | Number    | %     | Number    | %     | Number    | %    |
| 409                                                     | 40.10 | 352       | 34.51 | 211       | 20.69 | 48        | 4.71 |

### Lowest Performing Learning Outcomes (LOs)

- 1 - Finds surface area and volume of cuboidal and cylindrical object (20.83)
- 2 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (22.79)
- 3 - Draws and interprets bar charts and pie charts (27.94)

4 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (31.09)

5 - Finds rational numbers between two given rational numbers (31.43)