NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING
**NATIONAL ACHIEVEMENT SURVEY - NAS**
(Survey of Learning Outcomes)

| District Report Card: 2017 | |
|---|---|
| **State:** Madhya Pradesh | **District:** Rajgarh |
| **Class:** 8 | **Subject:** Mathematics |
| **Schools:** 51 | **Students:** 1144 |

## Participation/Coverage

**Students**

| GENDER | Boys | | Girls | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 466 | 40.73 | 678 | 59.27 |

| AREA | Rural | | Urban | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 971 | 84.88 | 173 | 15.12 |

| CATEGORY | SC | | ST | | OBC | | GEN | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| | 306 | 26.75 | 85 | 7.43 | 654 | 57.17 | 99 | 8.65 |

| CWSN | LD | VI | HI | S&LD | ID | Oth |
|---|---|---|---|---|---|---|
| | 2 | 2 | 2 | 0 | 1 | 22 |

| Management | Government | | Government-aided | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 1144 | 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 |
| 40.50 | 39.18 | 41.41 | 41.25 | 36.30 | 40.50 | 0.00 | 40.46 | 39.53 | 40.84 | 39.26 |

# Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description | Average Performance(%) |
|---|---|---|
| M601 | Solves problems involving large numbers by applying appropriate operations | 37.70 |
| M606 | Solves problems on daily life situations involving addition and subtraction of fractions / decimals | 50.09 |
| 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. | 37.16 |
| M621 | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them | 47.08 |
| M702 | Interprets the division and multiplication of fractions | 38.02 |
| M705 | Solves problems related to daily life situations involving rational numbers | 34.70 |
| M706 | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers | 34.72 |
| M707 | Adds/subtracts algebraic expressions | 49.39 |
| M710 | Solves problems related to conversion of percentage to fraction and decimal and vice versa | 31.09 |
| M717 | Finds out approximate area of closed shapes by using unit square grid/graph sheet | 32.74 |
| M719 | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode | 50.85 |
| M721 | Interprets data using bar graph | 48.19 |
| M801 | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns | 35.92 |
| M802 | Finds rational numbers between two given rational numbers | 35.41 |
| M803 | Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11 | 55.22 |
| M804 | Finds squares, cubes, square roots and cube roots of numbers using different methods | 38.86 |
| M808 | Uses various algebraic identities in solving problems of daily life | 50.43 |
| M812 | Verifies properties of parallelogram and establishes the relationship between them through reasoning | 35.52 |
| M818 | Finds surface area and volume of cuboidal and cylindrical object | 19.34 |
| M819 | Draws and interprets bar charts and pie charts | 42.05 |

| Range of Performance of Students who Answered Correctly | | | | | | | |
|---|---|---|---|---|---|---|---|
| Below 30% | | 30% - 50% | | 50% - 75% | | Above 75% | |
| Number | % | Number | % | Number | % | Number | % |
| 399 | 34.88 | 367 | 32.08 | 319 | 27.88 | 59 | 5.16 |

## Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (19.34)

2 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (31.09)

3 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (32.74)

4 - Solves problems related to daily life situations involving rational numbers (34.70)

5 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (34.72)