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

| District Report Card: 2017 | |
|---|---|
| **State:** West Bengal | **District:** Jalpaiguri |
| **Class:** 8 | **Subject:** Mathematics |
| **Schools:** 50 | **Students:** 944 |

## Participation/Coverage

**Students**

| GENDER | Boys | | Girls | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 437 | 46.29 | 507 | 53.71 |

| AREA | Rural | | Urban | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 839 | 88.88 | 105 | 11.12 |

| CATEGORY | SC | | ST | | OBC | | GEN | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| | 507 | 53.71 | 158 | 16.74 | 203 | 21.50 | 76 | 8.05 |

| CWSN | LD | VI | HI | S&LD | ID | Oth |
|---|---|---|---|---|---|---|
| | 0 | 3 | 0 | 3 | 0 | 7 |

| Management | Government | | Government-aided | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 0 | 0.00 | 944 | 100.00 |

| Average Performance of Students in Mathematics (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Overall | Gender | | Area | | Management | | Social Group | | | |
| | Male | Female | Rural | Urban | Govt. | Aided | SC | ST | OBC | GEN |
| 29.91 | 29.49 | 30.27 | 29.49 | 33.27 | 0.00 | 29.91 | 29.95 | 23.59 | 33.53 | 33.07 |

# Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description | Average Performance(%) |
|---|---|---|
| M601 | Solves problems involving large numbers by applying appropriate operations | 27.44 |
| M606 | Solves problems on daily life situations involving addition and subtraction of fractions / decimals | 24.53 |
| 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. | 28.49 |
| M621 | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them | 34.10 |
| M702 | Interprets the division and multiplication of fractions | 24.58 |
| M705 | Solves problems related to daily life situations involving rational numbers | 22.25 |
| M706 | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers | 20.95 |
| M707 | Adds/subtracts algebraic expressions | 38.56 |
| M710 | Solves problems related to conversion of percentage to fraction and decimal and vice versa | 19.44 |
| M717 | Finds out approximate area of closed shapes by using unit square grid/graph sheet | 31.60 |
| M719 | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode | 44.00 |
| M721 | Interprets data using bar graph | 37.58 |
| M801 | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns | 21.17 |
| M802 | Finds rational numbers between two given rational numbers | 32.61 |
| M803 | Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11 | 31.60 |
| M804 | Finds squares, cubes, square roots and cube roots of numbers using different methods | 27.43 |
| M808 | Uses various algebraic identities in solving problems of daily life | 41.04 |
| M812 | Verifies properties of parallelogram and establishes the relationship between them through reasoning | 23.16 |
| M818 | Finds surface area and volume of cuboidal and cylindrical object | 26.78 |
| M819 | Draws and interprets bar charts and pie charts | 31.46 |

| Range of Performance of Students who Answered Correctly | | | | | | | |
|---|---|---|---|---|---|---|---|
| Below 30% | | 30% - 50% | | 50% - 75% | | Above 75% | |
| Number | % | Number | % | Number | % | Number | % |
| 546 | 57.84 | 281 | 29.77 | 92 | 9.75 | 25 | 2.65 |

## Lowest Performing Learning Outcomes (LOs)

1 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (19.44)

2 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (20.95)

3 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (21.17)

4 - Solves problems related to daily life situations involving rational numbers (22.25)

5 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (23.16)

---