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

| District Report Card: 2017 | |
|---|---|
| **State:** Uttar Pradesh | **District:** Etawah |
| **Class:** 8 | **Subject:** Mathematics |
| **Schools:** 50 | **Students:** 1001 |

## Participation/Coverage

**Students**

| GENDER | Boys | | Girls | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 460 | 45.95 | 541 | 54.05 |

| AREA | Rural | | Urban | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 810 | 80.92 | 191 | 19.08 |

| CATEGORY | SC | | ST | | OBC | | GEN | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| | 360 | 35.96 | 4 | 0.40 | 519 | 51.85 | 118 | 11.79 |

| CWSN | LD | VI | HI | S&LD | ID | Oth |
|---|---|---|---|---|---|---|
| | 1 | 1 | 2 | 3 | 1 | 14 |

| Management | Government | | Government-aided | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 543 | 54.25 | 458 | 45.75 |

| Average Performance of Students in Mathematics (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Overall | Gender | | Area | | Management | | Social Group | | | |
| | Male | Female | Rural | Urban | Govt. | Aided | SC | ST | OBC | GEN |
| 46.27 | 43.45 | 48.66 | 45.79 | 48.31 | 51.26 | 40.35 | 46.31 | 40.00 | 46.13 | 46.95 |

# Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description | Average Performance(%) |
|---|---|---|
| M601 | Solves problems involving large numbers by applying appropriate operations | 46.63 |
| M606 | Solves problems on daily life situations involving addition and subtraction of fractions / decimals | 50.92 |
| 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. | 50.13 |
| M621 | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them | 45.19 |
| M702 | Interprets the division and multiplication of fractions | 45.35 |
| M705 | Solves problems related to daily life situations involving rational numbers | 56.94 |
| M706 | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers | 45.31 |
| M707 | Adds/subtracts algebraic expressions | 59.44 |
| M710 | Solves problems related to conversion of percentage to fraction and decimal and vice versa | 50.00 |
| M717 | Finds out approximate area of closed shapes by using unit square grid/graph sheet | 35.99 |
| M719 | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode | 58.05 |
| M721 | Interprets data using bar graph | 55.86 |
| M801 | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns | 39.84 |
| M802 | Finds rational numbers between two given rational numbers | 45.31 |
| M803 | Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11 | 56.24 |
| M804 | Finds squares, cubes, square roots and cube roots of numbers using different methods | 54.10 |
| M808 | Uses various algebraic identities in solving problems of daily life | 31.64 |
| M812 | Verifies properties of parallelogram and establishes the relationship between them through reasoning | 35.70 |
| M818 | Finds surface area and volume of cuboidal and cylindrical object | 24.41 |
| M819 | Draws and interprets bar charts and pie charts | 26.07 |

| Range of Performance of Students who Answered Correctly | | | | | | | |
|---|---|---|---|---|---|---|---|
| Below 30% | | 30% - 50% | | 50% - 75% | | Above 75% | |
| Number | % | Number | % | Number | % | Number | % |
| 296 | 29.57 | 262 | 26.17 | 339 | 33.87 | 104 | 10.39 |

## Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (24.41)

2 - Draws and interprets bar charts and pie charts (26.07)

3 - Uses various algebraic identities in solving problems of daily life (31.64)

4 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (35.70)

5 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (35.99)