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

Government of India
MHRD

NCERT

| District Report Card: 2017 | |
|---|---|
| **State:** Uttar Pradesh | **District:** Meerut |
| **Class:** 8 | **Subject:** Mathematics |
| **Schools:** 49 | **Students:** 1004 |

## Participation/Coverage

**Students**

| GENDER | Boys | | Girls | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 491 | 48.90 | 513 | 51.10 |

| AREA | Rural | | Urban | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 696 | 69.32 | 308 | 30.68 |

| CATEGORY | SC | | ST | | OBC | | GEN | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| | 360 | 35.86 | 1 | 0.10 | 448 | 44.62 | 195 | 19.42 |

| CWSN | LD | VI | HI | S&LD | ID | Oth |
|---|---|---|---|---|---|---|
| | 0 | 0 | 1 | 2 | 0 | 28 |

| Management | Government | | Government-aided | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 452 | 45.02 | 552 | 54.98 |

| Average Performance of Students in Mathematics (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Overall** | **Gender** | | **Area** | | **Management** | | **Social Group** | | | |
| | **Male** | **Female** | **Rural** | **Urban** | **Govt.** | **Aided** | **SC** | **ST** | **OBC** | **GEN** |
| **38.19** | **40.18** | **36.28** | **42.70** | **27.99** | **41.22** | **35.70** | **39.96** | **0.00** | **36.82** | **38.26** |

# Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description | Average Performance(%) |
|---|---|---|
| M601 | Solves problems involving large numbers by applying appropriate operations | 42.09 |
| M606 | Solves problems on daily life situations involving addition and subtraction of fractions / decimals | 45.06 |
| 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. | 38.81 |
| M621 | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them | 31.42 |
| M702 | Interprets the division and multiplication of fractions | 33.86 |
| M705 | Solves problems related to daily life situations involving rational numbers | 38.25 |
| M706 | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers | 45.38 |
| M707 | Adds/subtracts algebraic expressions | 54.28 |
| M710 | Solves problems related to conversion of percentage to fraction and decimal and vice versa | 32.13 |
| M717 | Finds out approximate area of closed shapes by using unit square grid/graph sheet | 32.02 |
| M719 | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode | 49.07 |
| M721 | Interprets data using bar graph | 48.80 |
| M801 | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns | 26.91 |
| M802 | Finds rational numbers between two given rational numbers | 32.93 |
| M803 | Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11 | 50.79 |
| M804 | Finds squares, cubes, square roots and cube roots of numbers using different methods | 42.97 |
| M808 | Uses various algebraic identities in solving problems of daily life | 35.14 |
| M812 | Verifies properties of parallelogram and establishes the relationship between them through reasoning | 29.93 |
| M818 | Finds surface area and volume of cuboidal and cylindrical object | 14.86 |
| M819 | Draws and interprets bar charts and pie charts | 29.28 |

| Range of Performance of Students who Answered Correctly | | | | | | | |
|---|---|---|---|---|---|---|---|
| Below 30% | | 30% - 50% | | 50% - 75% | | Above 75% | |
| Number | % | Number | % | Number | % | Number | % |
| 410 | 40.84 | 321 | 31.97 | 221 | 22.01 | 52 | 5.18 |

## Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (14.86)

2 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (26.91)

3 - Draws and interprets bar charts and pie charts (29.28)

4 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (29.93)

5 - Arranges given/collected information in the form of table, pictograph and bar graph and interprets them (31.42)