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

| District Report Card: 2017 | |
|---|---|
| **State:** Gujarat | **District:** Patan |
| **Class:** 8 | **Subject:** Mathematics |
| **Schools:** 51 | **Students:** 1310 |

## Participation/Coverage

**Students**

| GENDER | Boys | | Girls | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 778 | 59.39 | 532 | 40.61 |

| AREA | Rural | | Urban | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 1175 | 89.69 | 135 | 10.31 |

| CATEGORY | SC | | ST | | OBC | | GEN | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| | 112 | 8.55 | 11 | 0.84 | 1045 | 79.77 | 142 | 10.84 |

| CWSN | LD | VI | HI | S&LD | ID | Oth |
|---|---|---|---|---|---|---|
| | 4 | 32 | 0 | 5 | 0 | 4 |

| Management | Government | | Government-aided | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 1256 | 95.88 | 54 | 4.12 |

| Average Performance of Students in Mathematics (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Overall | Gender | | Area | | Management | | Social Group | | | |
| | Male | Female | Rural | Urban | Govt. | Aided | SC | ST | OBC | GEN |
| 47.20 | 47.93 | 46.13 | 48.39 | 36.84 | 47.89 | 30.99 | 45.60 | 50.91 | 46.47 | 53.52 |

# Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description | Average Performance(%) |
|---|---|---|
| M601 | Solves problems involving large numbers by applying appropriate operations | 48.28 |
| M606 | Solves problems on daily life situations involving addition and subtraction of fractions / decimals | 48.44 |
| 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. | 52.51 |
| M621 | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them | 46.41 |
| M702 | Interprets the division and multiplication of fractions | 45.65 |
| M705 | Solves problems related to daily life situations involving rational numbers | 41.76 |
| M706 | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers | 42.99 |
| M707 | Adds/subtracts algebraic expressions | 57.94 |
| M710 | Solves problems related to conversion of percentage to fraction and decimal and vice versa | 41.94 |
| M717 | Finds out approximate area of closed shapes by using unit square grid/graph sheet | 38.44 |
| M719 | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode | 52.26 |
| M721 | Interprets data using bar graph | 58.06 |
| M801 | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns | 27.61 |
| M802 | Finds rational numbers between two given rational numbers | 43.43 |
| M803 | Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11 | 50.00 |
| M804 | Finds squares, cubes, square roots and cube roots of numbers using different methods | 46.42 |
| M808 | Uses various algebraic identities in solving problems of daily life | 65.07 |
| M812 | Verifies properties of parallelogram and establishes the relationship between them through reasoning | 38.10 |
| M818 | Finds surface area and volume of cuboidal and cylindrical object | 30.00 |
| M819 | Draws and interprets bar charts and pie charts | 54.96 |

| Range of Performance of Students who Answered Correctly | | | | | | | |
|---|---|---|---|---|---|---|---|
| Below 30% | | 30% - 50% | | 50% - 75% | | Above 75% | |
| Number | % | Number | % | Number | % | Number | % |
| 357 | 27.25 | 407 | 31.07 | 360 | 27.48 | 186 | 14.20 |

## Lowest Performing Learning Outcomes (LOs)

1 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (27.61)

2 - Finds surface area and volume of cuboidal and cylindrical object (30.00)

3 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (38.10)

4 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (38.44)

5 - Solves problems related to daily life situations involving rational numbers (41.76)