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

| District Report Card: 2017 | |
|---|---|
| **State:** Maharashtra | **District:** Jalna |
| **Class:** 8 | **Subject:** Mathematics |
| **Schools:** 51 | **Students:** 1407 |

## Participation/Coverage

**Students**

| GENDER | Boys | | Girls | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 750 | 53.30 | 657 | 46.70 |

| AREA | Rural | | Urban | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 1053 | 74.84 | 354 | 25.16 |

| CATEGORY | SC | | ST | | OBC | | GEN | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| | 199 | 14.14 | 30 | 2.13 | 475 | 33.76 | 703 | 49.96 |

| CWSN | LD | VI | HI | S&LD | ID | Oth |
|---|---|---|---|---|---|---|
| | 6 | 2 | 4 | 5 | 3 | 95 |

| Management | Government | | Government-aided | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 256 | 18.19 | 1151 | 81.81 |

| Average Performance of Students in Mathematics (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Overall | Gender | | Area | | Management | | Social Group | | | |
| | Male | Female | Rural | Urban | Govt. | Aided | SC | ST | OBC | GEN |
| 32.35 | 30.76 | 34.17 | 32.93 | 30.62 | 40.16 | 30.61 | 29.41 | 30.00 | 32.20 | 33.38 |

# Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description | Average Performance(%) |
|---|---|---|
| M601 | Solves problems involving large numbers by applying appropriate operations | 28.98 |
| M606 | Solves problems on daily life situations involving addition and subtraction of fractions / decimals | 27.12 |
| 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. | 28.28 |
| M621 | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them | 30.42 |
| M702 | Interprets the division and multiplication of fractions | 27.93 |
| M705 | Solves problems related to daily life situations involving rational numbers | 26.72 |
| M706 | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers | 30.42 |
| M707 | Adds/subtracts algebraic expressions | 41.29 |
| M710 | Solves problems related to conversion of percentage to fraction and decimal and vice versa | 24.65 |
| M717 | Finds out approximate area of closed shapes by using unit square grid/graph sheet | 31.85 |
| M719 | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode | 42.25 |
| M721 | Interprets data using bar graph | 45.07 |
| M801 | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns | 23.80 |
| M802 | Finds rational numbers between two given rational numbers | 29.01 |
| M803 | Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11 | 31.85 |
| M804 | Finds squares, cubes, square roots and cube roots of numbers using different methods | 35.49 |
| M808 | Uses various algebraic identities in solving problems of daily life | 36.62 |
| M812 | Verifies properties of parallelogram and establishes the relationship between them through reasoning | 28.99 |
| M818 | Finds surface area and volume of cuboidal and cylindrical object | 31.27 |
| M819 | Draws and interprets bar charts and pie charts | 36.67 |

| Range of Performance of Students who Answered Correctly | | | | | | | |
|---|---|---|---|---|---|---|---|
| Below 30% | | 30% - 50% | | 50% - 75% | | Above 75% | |
| Number | % | Number | % | Number | % | Number | % |
| 701 | 49.82 | 472 | 33.55 | 206 | 14.64 | 28 | 1.99 |

## Lowest Performing Learning Outcomes (LOs)

1 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (23.80)

2 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (24.65)

3 - Solves problems related to daily life situations involving rational numbers (26.72)

4 - Solves problems on daily life situations involving addition and subtraction of fractions / decimals (27.12)

5 - Interprets the division and multiplication of fractions (27.93)

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