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

| District Report Card: 2017 ||
|---|---|
| **State:** Madhya Pradesh | **District:** Alirajpur |
| **Class:** 8 | **Subject:** Mathematics |
| **Schools:** 50 | **Students:** 1043 |

## Participation/Coverage

**Students**

| GENDER | Boys || Girls ||
|---|---|---|---|---|
| | Number | % | Number | % |
| | 520 | 49.86 | 523 | 50.14 |

| AREA | Rural || Urban ||
|---|---|---|---|---|
| | Number | % | Number | % |
| | 959 | 91.95 | 84 | 8.05 |

| CATEGORY | SC || ST || OBC || GEN ||
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| | 43 | 4.12 | 943 | 90.41 | 34 | 3.26 | 23 | 2.21 |

| CWSN | LD | VI | HI | S&LD | ID | Oth |
|---|---|---|---|---|---|---|
| | 6 | 2 | 28 | 6 | 0 | 0 |

| Management | Government || Government-aided ||
|---|---|---|---|---|
| | Number | % | Number | % |
| | 1026 | 98.37 | 17 | 1.63 |

| Average Performance of Students in Mathematics (%) |||||||||||
|---|---|---|---|---|---|---|---|---|---|---|
| Overall | Gender || Area || Management || Social Group ||||
| | Male | Female | Rural | Urban | Govt. | Aided | SC | ST | OBC | GEN |
| 30.75 | 28.12 | 33.37 | 30.13 | 37.86 | 30.73 | 31.76 | 31.63 | 30.70 | 29.22 | 33.33 |

# Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description | Average Performance(%) |
|---|---|---|
| M601 | Solves problems involving large numbers by applying appropriate operations | 30.71 |
| M606 | Solves problems on daily life situations involving addition and subtraction of fractions / decimals | 33.86 |
| 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. | 26.76 |
| M621 | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them | 30.91 |
| M702 | Interprets the division and multiplication of fractions | 26.17 |
| M705 | Solves problems related to daily life situations involving rational numbers | 29.82 |
| M706 | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers | 28.97 |
| M707 | Adds/subtracts algebraic expressions | 34.42 |
| M710 | Solves problems related to conversion of percentage to fraction and decimal and vice versa | 25.42 |
| M717 | Finds out approximate area of closed shapes by using unit square grid/graph sheet | 26.57 |
| M719 | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode | 42.17 |
| M721 | Interprets data using bar graph | 36.45 |
| M801 | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns | 34.21 |
| M802 | Finds rational numbers between two given rational numbers | 32.34 |
| M803 | Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11 | 35.43 |
| M804 | Finds squares, cubes, square roots and cube roots of numbers using different methods | 35.70 |
| M808 | Uses various algebraic identities in solving problems of daily life | 34.58 |
| M812 | Verifies properties of parallelogram and establishes the relationship between them through reasoning | 22.18 |
| M818 | Finds surface area and volume of cuboidal and cylindrical object | 16.07 |
| M819 | Draws and interprets bar charts and pie charts | 33.65 |

| Range of Performance of Students who Answered Correctly | | | | | | | |
|---|---|---|---|---|---|---|---|
| Below 30% | | 30% - 50% | | 50% - 75% | | Above 75% | |
| Number | % | Number | % | Number | % | Number | % |
| 546 | 52.35 | 366 | 35.09 | 126 | 12.08 | 5 | 0.48 |

## Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (16.07)

2 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (22.18)

3 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (25.42)

4 - Interprets the division and multiplication of fractions (26.17)

5 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (26.57)