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

| District Report Card: 2017 | |
|---|---|
| **State:** Haryana | **District:** Panchkula |
| **Class:** 8 | **Subject:** Mathematics |
| **Schools:** 51 | **Students:** 1170 |

## Participation/Coverage

**Students**

| GENDER | Boys | | Girls | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 538 | 45.98 | 632 | 54.02 |

| AREA | Rural | | Urban | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 570 | 48.72 | 600 | 51.28 |

| CATEGORY | SC | | ST | | OBC | | GEN | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| | 364 | 31.11 | 1 | 0.09 | 325 | 27.78 | 480 | 41.03 |

| CWSN | LD | VI | HI | S&LD | ID | Oth |
|---|---|---|---|---|---|---|
| | 3 | 0 | 0 | 0 | 5 | 2 |

| Management | Government | | Government-aided | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 1094 | 93.50 | 76 | 6.50 |

| Average Performance of Students in Mathematics (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Overall | Gender | | Area | | Management | | Social Group | | | |
| | Male | Female | Rural | Urban | Govt. | Aided | SC | ST | OBC | GEN |
| 34.32 | 30.94 | 37.20 | 32.71 | 35.86 | 34.32 | 34.39 | 33.33 | 46.67 | 33.23 | 35.79 |

# Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description | Average Performance(%) |
|---|---|---|
| M601 | Solves problems involving large numbers by applying appropriate operations | 31.39 |
| M606 | Solves problems on daily life situations involving addition and subtraction of fractions / decimals | 35.39 |
| 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. | 30.36 |
| M621 | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them | 22.87 |
| M702 | Interprets the division and multiplication of fractions | 36.84 |
| M705 | Solves problems related to daily life situations involving rational numbers | 26.50 |
| M706 | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers | 20.49 |
| M707 | Adds/subtracts algebraic expressions | 36.84 |
| M710 | Solves problems related to conversion of percentage to fraction and decimal and vice versa | 23.29 |
| M717 | Finds out approximate area of closed shapes by using unit square grid/graph sheet | 34.72 |
| M719 | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode | 52.01 |
| M721 | Interprets data using bar graph | 48.86 |
| M801 | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns | 30.47 |
| M802 | Finds rational numbers between two given rational numbers | 25.92 |
| M803 | Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11 | 44.74 |
| M804 | Finds squares, cubes, square roots and cube roots of numbers using different methods | 32.40 |
| M808 | Uses various algebraic identities in solving problems of daily life | 45.71 |
| M812 | Verifies properties of parallelogram and establishes the relationship between them through reasoning | 29.45 |
| M818 | Finds surface area and volume of cuboidal and cylindrical object | 18.91 |
| M819 | Draws and interprets bar charts and pie charts | 38.97 |

| Range of Performance of Students who Answered Correctly | | | | | | | |
|---|---|---|---|---|---|---|---|
| Below 30% | | 30% - 50% | | 50% - 75% | | Above 75% | |
| Number | % | Number | % | Number | % | Number | % |
| 542 | 46.32 | 415 | 35.47 | 179 | 15.30 | 34 | 2.91 |

## Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (18.91)

2 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (20.49)

3 - Arranges given/collected information in the form of table, pictograph and bar graph and interprets them (22.87)

4 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (23.29)

5 - Finds rational numbers between two given rational numbers (25.92)