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

| District Report Card: 2017 | |
|---|---|
| **State:** Punjab | **District:** Gurdaspur |
| **Class:** 8 | **Subject:** Mathematics |
| **Schools:** 51 | **Students:** 999 |

## Participation/Coverage

**Students**

| GENDER | Boys | | Girls | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 516 | 51.65 | 483 | 48.35 |

| AREA | Rural | | Urban | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 859 | 85.99 | 140 | 14.01 |

| CATEGORY | SC | | ST | | OBC | | GEN | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| | 423 | 42.34 | 3 | 0.30 | 358 | 35.84 | 215 | 21.52 |

| CWSN | LD | VI | HI | S&LD | ID | Oth |
|---|---|---|---|---|---|---|
| | 2 | 12 | 2 | 2 | 0 | 118 |

| Management | Government | | Government-aided | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 907 | 90.79 | 92 | 9.21 |

| Average Performance of Students in Mathematics (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Overall | Gender | | Area | | Management | | Social Group | | | |
| | Male | Female | Rural | Urban | Govt. | Aided | SC | ST | OBC | GEN |
| 39.03 | 38.88 | 39.20 | 39.76 | 34.57 | 37.41 | 55.07 | 37.70 | 33.33 | 38.75 | 42.20 |

# Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description | Average Performance(%) |
|---|---|---|
| M601 | Solves problems involving large numbers by applying appropriate operations | 31.04 |
| M606 | Solves problems on daily life situations involving addition and subtraction of fractions / decimals | 40.47 |
| 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. | 37.80 |
| M621 | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them | 41.26 |
| M702 | Interprets the division and multiplication of fractions | 46.45 |
| M705 | Solves problems related to daily life situations involving rational numbers | 36.34 |
| M706 | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers | 42.65 |
| M707 | Adds/subtracts algebraic expressions | 49.35 |
| M710 | Solves problems related to conversion of percentage to fraction and decimal and vice versa | 23.88 |
| M717 | Finds out approximate area of closed shapes by using unit square grid/graph sheet | 21.41 |
| M719 | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode | 55.44 |
| M721 | Interprets data using bar graph | 48.78 |
| M801 | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns | 36.33 |
| M802 | Finds rational numbers between two given rational numbers | 32.65 |
| M803 | Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11 | 36.15 |
| M804 | Finds squares, cubes, square roots and cube roots of numbers using different methods | 48.57 |
| M808 | Uses various algebraic identities in solving problems of daily life | 41.43 |
| M812 | Verifies properties of parallelogram and establishes the relationship between them through reasoning | 27.98 |
| M818 | Finds surface area and volume of cuboidal and cylindrical object | 22.45 |
| M819 | Draws and interprets bar charts and pie charts | 38.04 |

| Range of Performance of Students who Answered Correctly | | | | | | | |
|---|---|---|---|---|---|---|---|
| Below 30% | | 30% - 50% | | 50% - 75% | | Above 75% | |
| Number | % | Number | % | Number | % | Number | % |
| 405 | 40.54 | 306 | 30.63 | 233 | 23.32 | 55 | 5.51 |

## Lowest Performing Learning Outcomes (LOs)

1 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (21.41)

2 - Finds surface area and volume of cuboidal and cylindrical object (22.45)

3 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (23.88)

4 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (27.98)

5 - Solves problems involving large numbers by applying appropriate operations (31.04)

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