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

| District Report Card: 2017 | |
|---|---|
| **State:** Arunachal Pradesh | **District:** Upper Siang |
| **Class:** 8 | **Subject:** Mathematics |
| **Schools:** 22 | **Students:** 385 |

## Participation/Coverage

**Students**

| GENDER | Boys | | Girls | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 153 | 39.74 | 232 | 60.26 |

| AREA | Rural | | Urban | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 253 | 65.71 | 132 | 34.29 |

| CATEGORY | SC | | ST | | OBC | | GEN | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| | 7 | 1.82 | 337 | 87.53 | 15 | 3.90 | 26 | 6.75 |

| CWSN | LD | VI | HI | S&LD | ID | Oth |
|---|---|---|---|---|---|---|
| | 2 | 6 | 0 | 3 | 0 | 1 |

| Management | Government | | Government-aided | |
|---|---|---|---|---|
| | Number | % | Number | % |
| | 361 | 93.77 | 24 | 6.23 |

| Average Performance of Students in Mathematics (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Overall | Gender | | Area | | Management | | Social Group | | | |
| | Male | Female | Rural | Urban | Govt. | Aided | SC | ST | OBC | GEN |
| 33.44 | 35.16 | 32.30 | 30.51 | 39.04 | 32.48 | 47.78 | 22.86 | 33.18 | 34.22 | 39.23 |

# Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description | Average Performance(%) |
|---|---|---|
| M601 | Solves problems involving large numbers by applying appropriate operations | 28.42 |
| M606 | Solves problems on daily life situations involving addition and subtraction of fractions / decimals | 25.26 |
| 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. | 29.22 |
| M621 | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them | 20.53 |
| M702 | Interprets the division and multiplication of fractions | 30.39 |
| M705 | Solves problems related to daily life situations involving rational numbers | 37.66 |
| M706 | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers | 31.28 |
| M707 | Adds/subtracts algebraic expressions | 38.70 |
| M710 | Solves problems related to conversion of percentage to fraction and decimal and vice versa | 12.82 |
| M717 | Finds out approximate area of closed shapes by using unit square grid/graph sheet | 28.42 |
| M719 | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode | 46.96 |
| M721 | Interprets data using bar graph | 43.59 |
| M801 | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns | 24.62 |
| M802 | Finds rational numbers between two given rational numbers | 36.41 |
| M803 | Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11 | 38.95 |
| M804 | Finds squares, cubes, square roots and cube roots of numbers using different methods | 30.26 |
| M808 | Uses various algebraic identities in solving problems of daily life | 36.41 |
| M812 | Verifies properties of parallelogram and establishes the relationship between them through reasoning | 27.65 |
| M818 | Finds surface area and volume of cuboidal and cylindrical object | 35.38 |
| M819 | Draws and interprets bar charts and pie charts | 42.86 |

| Range of Performance of Students who Answered Correctly | | | | | | | |
|---|---|---|---|---|---|---|---|
| Below 30% | | 30% - 50% | | 50% - 75% | | Above 75% | |
| Number | % | Number | % | Number | % | Number | % |
| 158 | 41.04 | 178 | 46.23 | 48 | 12.47 | 1 | 0.26 |

## Lowest Performing Learning Outcomes (LOs)

1 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (12.82)

2 - Arranges given/collected information in the form of table, pictograph and bar graph and interprets them (20.53)

3 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (24.62)

4 - Solves problems on daily life situations involving addition and subtraction of fractions / decimals (25.26)

5 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (27.65)