



District Report Card: 2017


| | |
|---------------------|-----------------------------|
| State: Bihar | District: Sitamarhi |
| Class: 8 | Subject: Mathematics |
| Schools: 50 | Students: 1172 |


Participation/Coverage


Students

| | | | | |
|--|--------|-------|--------|-------|
| <div>GENDER</div> <div></div> | Boys | | Girls | |
| | Number | % | Number | % |
| | 557 | 47.53 | 615 | 52.47 |

| | | | | |
|---|--------|-------|--------|------|
| <div>AREA</div> <div></div> | Rural | | Urban | |
| | Number | % | Number | % |
| | 1117 | 95.31 | 55 | 4.69 |

| | | | | | | | | |
|--|--------|-------|--------|------|--------|-------|--------|------|
| <div>CATEGORY</div> <div></div> | SC | | ST | | OBC | | GEN | |
| | Number | % | Number | % | Number | % | Number | % |
| | 157 | 13.40 | 5 | 0.43 | 894 | 76.28 | 116 | 9.90 |

| | | | | | | |
|--|----|----|----|------|----|-----|
| <div>CWSN</div> <div></div> | LD | VI | HI | S&LD | ID | Oth |
| | 2 | 1 | 1 | 2 | 1 | 18 |

| | | | | |
|--|------------|--------|------------------|------|
| <div>Management</div> <div></div> | Government | | Government-aided | |
| | Number | % | Number | % |
| | 1172 | 100.00 | 0 | 0.00 |

Average Performance of Students in Mathematics (%)

| Overall | Gender | | Area | | Management | | Social Group | | | |
|---------|--------|--------|-------|-------|------------|-------|--------------|-------|-------|-------|
| | Male | Female | Rural | Urban | Govt. | Aided | SC | ST | OBC | GEN |
| 47.05 | 47.86 | 46.32 | 47.88 | 30.18 | 47.05 | 0.00 | 41.06 | 69.33 | 48.43 | 43.56 |

Performance on Learning Outcomes (LOs)

| Learning Outcomes | Description | Average Performance(%) |
|-------------------|--|------------------------|
| M601 | Solves problems involving large numbers by applying appropriate operations | 52.31 |
| M606 | Solves problems on daily life situations involving addition and subtraction of fractions / decimals | 60.17 |
| 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. | 53.10 |
| M621 | Arranges given/collected information in the form of table, pictograph and bar graph and interprets them | 35.56 |
| M702 | Interprets the division and multiplication of fractions | 46.67 |
| M705 | Solves problems related to daily life situations involving rational numbers | 53.16 |
| M706 | Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers | 55.88 |
| M707 | Adds/subtracts algebraic expressions | 63.91 |
| M710 | Solves problems related to conversion of percentage to fraction and decimal and vice versa | 42.93 |
| M717 | Finds out approximate area of closed shapes by using unit square grid/graph sheet | 40.17 |
| M719 | Finds various representative values for simple data from her/his daily life contexts like mean, median and mode | 50.77 |
| M721 | Interprets data using bar graph | 56.22 |
| M801 | Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns | 36.29 |
| M802 | Finds rational numbers between two given rational numbers | 38.84 |
| M803 | Proves divisibility rules of 2, 3, 4, 5, 6, 9 and 11 | 56.58 |
| M804 | Finds squares, cubes, square roots and cube roots of numbers using different methods | 56.05 |
| M808 | Uses various algebraic identities in solving problems of daily life | 28.45 |
| M812 | Verifies properties of parallelogram and establishes the relationship between them through reasoning | 35.97 |
| M818 | Finds surface area and volume of cuboidal and cylindrical object | 20.10 |
| M819 | Draws and interprets bar charts and pie charts | 42.58 |

| Range of Performance of Students who Answered Correctly | | | | | | | |
|---|-------|-----------|-------|-----------|-------|-----------|-------|
| Below 30% | | 30% - 50% | | 50% - 75% | | Above 75% | |
| Number | % | Number | % | Number | % | Number | % |
| 366 | 31.23 | 267 | 22.78 | 351 | 29.95 | 188 | 16.04 |

Lowest Performing Learning Outcomes (LOs)

- 1 - Finds surface area and volume of cuboidal and cylindrical object (20.10)
- 2 - Uses various algebraic identities in solving problems of daily life (28.45)
- 3 - Arranges given/collected information in the form of table, pictograph and bar graph and interprets them (35.56)

4 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (35.97)

5 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (36.29)