



District Report Card: 2017


State: Odisha	District: Rayagada
Class: 8	Subject: Mathematics
Schools: 50	Students: 1353


Participation/Coverage


Students

<div>GENDER</div> <div></div>	Boys		Girls	
	Number	%	Number	%
	589	43.53	764	56.47

<div>AREA</div> <div></div>	Rural		Urban	
	Number	%	Number	%
	1205	89.06	148	10.94

<div>CATEGORY</div> <div></div>	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	320	23.65	810	59.87	198	14.63	25	1.85

<div>CWSN</div> <div></div>	LD	VI	HI	S&LD	ID	Oth
	1	1	0	1	0	1

<div>Management</div> <div></div>	Government		Government-aided	
	Number	%	Number	%
	1277	94.38	76	5.62

Average Performance of Students in Mathematics (%)

Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
29.97	26.98	32.27	30.61	24.73	30.40	22.63	29.19	30.43	29.76	26.67

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	27.17
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	28.03
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.	28.26
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	27.17
M702	Interprets the division and multiplication of fractions	27.42
M705	Solves problems related to daily life situations involving rational numbers	21.88
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	35.10
M707	Adds/subtracts algebraic expressions	35.33
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	24.21
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	26.88
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	36.58
M721	Interprets data using bar graph	38.12
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	24.36
M802	Finds rational numbers between two given rational numbers	32.83
M803	Proves divisibility rules of 2, 3, 4, 5, 6, 9 and 11	36.71
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	34.95
M808	Uses various algebraic identities in solving problems of daily life	37.37
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	26.31
M818	Finds surface area and volume of cuboidal and cylindrical object	19.97
M819	Draws and interprets bar charts and pie charts	31.86

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
740	54.69	346	25.57	203	15.00	64	4.73

Lowest Performing Learning Outcomes (LOs)

- 1 - Finds surface area and volume of cuboidal and cylindrical object (19.97)
- 2 - Solves problems related to daily life situations involving rational numbers (21.88)
- 3 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (24.21)

- 4 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (24.36)
- 5 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (26.31)