



### District Report Card: 2017


<b>State:</b> Chhattisgarh	<b>District:</b> Surguja
<b>Class:</b> 8	<b>Subject:</b> Mathematics
<b>Schools:</b> 51	<b>Students:</b> 1200


### Participation/Coverage


#### Students

<div>GENDER</div> <div></div>	Boys		Girls	
	Number	%	Number	%
	560	46.67	640	53.33

<div>AREA</div> <div></div>	Rural		Urban	
	Number	%	Number	%
	1014	84.50	186	15.50

<div>CATEGORY</div> <div></div>	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	67	5.58	721	60.08	367	30.58	45	3.75

<div>CWSN</div> <div></div>	LD	VI	HI	S&LD	ID	Oth
	3	1	0	0	0	3

<div>Management</div> <div></div>	Government		Government-aided	
	Number	%	Number	%
	1120	93.33	80	6.67

### Average Performance of Students in Mathematics (%)

Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
59.41	58.93	59.83	60.67	52.54	61.11	35.58	59.60	58.39	60.67	65.19

## Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	70.09
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	66.50
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.	65.38
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	59.83
M702	Interprets the division and multiplication of fractions	54.92
M705	Solves problems related to daily life situations involving rational numbers	60.83
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	56.10
M707	Adds/subtracts algebraic expressions	79.08
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	61.79
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	48.89
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	63.19
M721	Interprets data using bar graph	75.77
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	41.30
M802	Finds rational numbers between two given rational numbers	58.37
M803	Proves divisibility rules of 2, 3, 4, 5, 6, 9 and 11	71.62
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	74.31
M808	Uses various algebraic identities in solving problems of daily life	40.81
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	44.48
M818	Finds surface area and volume of cuboidal and cylindrical object	41.79
M819	Draws and interprets bar charts and pie charts	53.67

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
139	11.58	220	18.33	554	46.17	287	23.92

## Lowest Performing Learning Outcomes (LOs)

- 1 - Uses various algebraic identities in solving problems of daily life (40.81)
- 2 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (41.30)
- 3 - Finds surface area and volume of cuboidal and cylindrical object (41.79)

- 4 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (44.48)
- 5 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (48.89)