



### District Report Card: 2017


<b>State:</b> Madhya Pradesh	<b>District:</b> Barwani
<b>Class:</b> 8	<b>Subject:</b> Mathematics
<b>Schools:</b> 49	<b>Students:</b> 1006


### Participation/Coverage


#### Students

<div>GENDER</div> <div></div>	Boys		Girls	
	Number	%	Number	%
	593	58.95	413	41.05

<div>AREA</div> <div></div>	Rural		Urban	
	Number	%	Number	%
	891	88.57	115	11.43

<div>CATEGORY</div> <div></div>	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	93	9.24	735	73.06	166	16.50	12	1.19

<div>CWSN</div> <div></div>	LD	VI	HI	S&LD	ID	Oth
	1	1	2	0	0	2

<div>Management</div> <div></div>	Government		Government-aided	
	Number	%	Number	%
	976	97.02	30	2.98

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

Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
36.80	36.10	37.80	36.58	38.49	37.04	29.11	34.62	37.25	35.90	38.33

## Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	38.97
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	39.17
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.	36.25
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	36.58
M702	Interprets the division and multiplication of fractions	30.32
M705	Solves problems related to daily life situations involving rational numbers	36.08
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	32.80
M707	Adds/subtracts algebraic expressions	44.14
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	27.24
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	33.60
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	49.57
M721	Interprets data using bar graph	46.92
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	32.21
M802	Finds rational numbers between two given rational numbers	35.39
M803	Proves divisibility rules of 2, 3, 4, 5, 6, 9 and 11	43.34
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	47.51
M808	Uses various algebraic identities in solving problems of daily life	42.54
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	28.89
M818	Finds surface area and volume of cuboidal and cylindrical object	22.86
M819	Draws and interprets bar charts and pie charts	29.82

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
415	41.25	332	33.00	231	22.96	28	2.78

## Lowest Performing Learning Outcomes (LOs)

- 1 - Finds surface area and volume of cuboidal and cylindrical object (22.86)
- 2 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (27.24)
- 3 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (28.89)

4 - Draws and interprets bar charts and pie charts (29.82)

5 - Interprets the division and multiplication of fractions (30.32)