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

District Report Card: 2017	
State: Madhya Pradesh	**District:** Satna
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1135

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	540	47.58	595	52.42

AREA	Rural		Urban	
	Number	%	Number	%
	994	87.58	141	12.42

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	295	25.99	162	14.27	574	50.57	104	9.16

CWSN	LD	VI	HI	S&LD	ID	Oth
	6	11	3	1	7	20

Management	Government		Government-aided	
	Number	%	Number	%
	1135	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**
37.86	**36.74**	**38.87**	**39.16**	**28.65**	**37.86**	**0.00**	**34.87**	**33.95**	**38.98**	**46.22**

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	36.62
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	39.32
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.	36.76
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	33.39
M702	Interprets the division and multiplication of fractions	31.37
M705	Solves problems related to daily life situations involving rational numbers	40.44
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	34.26
M707	Adds/subtracts algebraic expressions	49.25
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	32.87
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	32.50
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	49.59
M721	Interprets data using bar graph	43.77
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	28.03
M802	Finds rational numbers between two given rational numbers	39.27
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	46.50
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	45.67
M808	Uses various algebraic identities in solving problems of daily life	41.52
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	32.27
M818	Finds surface area and volume of cuboidal and cylindrical object	16.78
M819	Draws and interprets bar charts and pie charts	33.83

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
475	41.85	343	30.22	258	22.73	59	5.20

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (16.78)

2 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (28.03)

3 - Interprets the division and multiplication of fractions (31.37)

4 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (32.27)

5 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (32.50)