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

District Report Card: 2017	
State: Madhya Pradesh	**District:** Datia
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1163

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	606	52.11	557	47.89

AREA	Rural		Urban	
	Number	%	Number	%
	1019	87.62	144	12.38

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	397	34.14	16	1.38	647	55.63	103	8.86

CWSN	LD	VI	HI	S&LD	ID	Oth
	13	2	3	3	11	3

Management	Government		Government-aided	
	Number	%	Number	%
	1163	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**
37.13	**37.54**	**36.68**	**36.74**	**39.91**	**37.13**	**0.00**	**35.97**	**34.58**	**38.39**	**34.05**

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	29.39
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	46.78
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.	37.86
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	31.48
M702	Interprets the division and multiplication of fractions	35.08
M705	Solves problems related to daily life situations involving rational numbers	39.04
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	38.27
M707	Adds/subtracts algebraic expressions	49.87
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	29.59
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	30.26
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	48.50
M721	Interprets data using bar graph	55.10
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	22.28
M802	Finds rational numbers between two given rational numbers	27.89
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	51.65
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	47.96
M808	Uses various algebraic identities in solving problems of daily life	34.69
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	30.90
M818	Finds surface area and volume of cuboidal and cylindrical object	17.01
M819	Draws and interprets bar charts and pie charts	26.05

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
495	42.56	346	29.75	275	23.65	47	4.04

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (17.01)

2 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (22.28)

3 - Draws and interprets bar charts and pie charts (26.05)

4 - Finds rational numbers between two given rational numbers (27.89)

5 - Solves problems involving large numbers by applying appropriate operations (29.39)