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

District Report Card: 2017	
State: Madhya Pradesh	**District:** Shahdol
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1315

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	597	45.40	718	54.60

AREA	Rural		Urban	
	Number	%	Number	%
	1191	90.57	124	9.43

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	110	8.37	739	56.20	412	31.33	54	4.11

CWSN	LD	VI	HI	S&LD	ID	Oth
	4	2	15	1	4	36

Management	Government		Government-aided	
	Number	%	Number	%
	1315	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
40.07	39.88	40.22	38.86	51.61	40.07	0.00	40.55	39.58	39.71	48.52

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	33.18
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	44.60
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.	43.97
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	35.92
M702	Interprets the division and multiplication of fractions	38.02
M705	Solves problems related to daily life situations involving rational numbers	42.97
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	39.21
M707	Adds/subtracts algebraic expressions	49.51
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	31.16
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	23.44
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	48.63
M721	Interprets data using bar graph	55.17
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	31.76
M802	Finds rational numbers between two given rational numbers	35.11
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	44.29
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	50.61
M808	Uses various algebraic identities in solving problems of daily life	32.67
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	36.51
M818	Finds surface area and volume of cuboidal and cylindrical object	19.45
M819	Draws and interprets bar charts and pie charts	38.56

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
515	39.16	347	26.39	364	27.68	89	6.77

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (19.45)

2 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (23.44)

3 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (31.16)

4 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (31.76)

5 - Uses various algebraic identities in solving problems of daily life (32.67)