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

District Report Card: 2017	
State: Madhya Pradesh	**District:** Betul
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1186

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	579	48.82	607	51.18

AREA	Rural		Urban	
	Number	%	Number	%
	1016	85.67	170	14.33

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	112	9.44	624	52.61	423	35.67	27	2.28

CWSN	LD	VI	HI	S&LD	ID	Oth
	3	2	1	0	2	30

Management	Government		Government-aided	
	Number	%	Number	%
	1186	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
35.78	35.39	36.14	36.58	30.98	35.78	0.00	29.58	35.95	36.97	38.77

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	36.01
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	40.44
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.	32.90
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	30.38
M702	Interprets the division and multiplication of fractions	37.10
M705	Solves problems related to daily life situations involving rational numbers	33.90
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	30.00
M707	Adds/subtracts algebraic expressions	41.15
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	29.50
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	29.86
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	46.44
M721	Interprets data using bar graph	47.67
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	22.00
M802	Finds rational numbers between two given rational numbers	35.83
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	48.98
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	43.17
M808	Uses various algebraic identities in solving problems of daily life	39.83
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	30.14
M818	Finds surface area and volume of cuboidal and cylindrical object	22.00
M819	Draws and interprets bar charts and pie charts	32.63

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
552	46.54	334	28.16	243	20.49	57	4.81

Lowest Performing Learning Outcomes (LOs)

1 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (22.00)

2 - Finds surface area and volume of cuboidal and cylindrical object (22.00)

3 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (29.50)

4 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (29.86)

5 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (30.00)