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

District Report Card: 2017	
State: Maharashtra	**District:** Osmanabad
Class: 8	**Subject:** Mathematics
Schools: 50	**Students:** 1291

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	623	48.26	668	51.74

AREA	Rural		Urban	
	Number	%	Number	%
	907	70.26	384	29.74

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	180	13.94	32	2.48	338	26.18	741	57.40

CWSN	LD	VI	HI	S&LD	ID	Oth
	3	1	1	5	0	3

Management	Government		Government-aided	
	Number	%	Number	%
	204	15.80	1087	84.20

Average Performance of Students in Mathematics (%)										
Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
42.23	43.40	41.13	41.48	43.99	50.69	40.64	38.41	36.46	42.50	43.27

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	33.75
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	43.08
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.	42.19
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	40.12
M702	Interprets the division and multiplication of fractions	39.74
M705	Solves problems related to daily life situations involving rational numbers	29.59
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	35.65
M707	Adds/subtracts algebraic expressions	52.21
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	24.85
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	31.73
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	48.14
M721	Interprets data using bar graph	57.87
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	37.35
M802	Finds rational numbers between two given rational numbers	41.05
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	51.79
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	50.15
M808	Uses various algebraic identities in solving problems of daily life	52.47
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	43.38
M818	Finds surface area and volume of cuboidal and cylindrical object	26.85
M819	Draws and interprets bar charts and pie charts	47.95

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
416	32.22	440	34.08	366	28.35	69	5.34

Lowest Performing Learning Outcomes (LOs)

1 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (24.85)

2 - Finds surface area and volume of cuboidal and cylindrical object (26.85)

3 - Solves problems related to daily life situations involving rational numbers (29.59)

4 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (31.73)

5 - Solves problems involving large numbers by applying appropriate operations (33.75)