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

District Report Card: 2017	
State: Maharashtra	**District:** Mumbai (suburban)
Class: 8	**Subject:** Mathematics
Schools: 50	**Students:** 1204

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	555	46.10	649	53.90

AREA	Rural		Urban	
	Number	%	Number	%
	0	0.00	1204	100.00

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	192	15.95	19	1.58	70	5.81	923	76.66

CWSN	LD	VI	HI	S&LD	ID	Oth
	1	3	0	0	1	19

Management	Government		Government-aided	
	Number	%	Number	%
	1204	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
30.02	29.23	30.69	0.00	30.02	30.02	0.00	27.64	27.72	30.29	30.54

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	28.79
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	20.30
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.	22.11
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	31.61
M702	Interprets the division and multiplication of fractions	29.73
M705	Solves problems related to daily life situations involving rational numbers	23.59
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	21.39
M707	Adds/subtracts algebraic expressions	32.39
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	21.72
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	18.80
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	44.54
M721	Interprets data using bar graph	42.95
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	25.87
M802	Finds rational numbers between two given rational numbers	32.67
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	32.45
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	32.50
M808	Uses various algebraic identities in solving problems of daily life	39.30
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	29.81
M818	Finds surface area and volume of cuboidal and cylindrical object	30.35
M819	Draws and interprets bar charts and pie charts	30.48

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
698	57.97	382	31.73	96	7.97	28	2.33

Lowest Performing Learning Outcomes (LOs)

1 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (18.80)

2 - Solves problems on daily life situations involving addition and subtraction of fractions / decimals (20.30)

3 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (21.39)

4 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (21.72)

5 - Finds out the perimeter and area of rectangular objects in the surroundings like floor of the class room, surfaces of a chalk box etc. (22.11)