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

District Report Card: 2017	
State: Maharashtra	**District:** Nagpur
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1317

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	677	51.40	640	48.60

AREA	Rural		Urban	
	Number	%	Number	%
	494	37.51	823	62.49

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	250	18.98	107	8.12	698	53.00	262	19.89

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

Management	Government		Government-aided	
	Number	%	Number	%
	134	10.17	1183	89.83

Average Performance of Students in Mathematics (%)										
Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
36.71	36.09	37.38	40.76	34.29	30.45	37.42	36.21	33.52	38.19	34.55

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	29.03
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	29.48
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.	34.33
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	31.76
M702	Interprets the division and multiplication of fractions	41.76
M705	Solves problems related to daily life situations involving rational numbers	33.11
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	33.69
M707	Adds/subtracts algebraic expressions	45.10
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	26.71
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	29.48
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	41.57
M721	Interprets data using bar graph	41.88
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	33.54
M802	Finds rational numbers between two given rational numbers	36.57
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	46.05
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	37.78
M808	Uses various algebraic identities in solving problems of daily life	40.36
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	34.38
M818	Finds surface area and volume of cuboidal and cylindrical object	30.20
M819	Draws and interprets bar charts and pie charts	42.07

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
559	42.44	468	35.54	232	17.62	58	4.40

Lowest Performing Learning Outcomes (LOs)

1 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (26.71)

2 - Solves problems involving large numbers by applying appropriate operations (29.03)

3 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (29.48)

4 - Solves problems on daily life situations involving addition and subtraction of fractions / decimals (29.48)

5 - Finds surface area and volume of cuboidal and cylindrical object (30.20)