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

District Report Card: 2017	
State: Maharashtra	**District:** Chandrapur
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1327

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	699	52.68	628	47.32

AREA	Rural		Urban	
	Number	%	Number	%
	973	73.32	354	26.68

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	175	13.19	354	26.68	654	49.28	144	10.85

CWSN	LD	VI	HI	S&LD	ID	Oth
	1	12	4	0	15	17

Management	Government		Government-aided	
	Number	%	Number	%
	132	9.95	1195	90.05

Average Performance of Students in Mathematics (%)										
Overall	**Gender**		**Area**		**Management**		**Social Group**			
	Male	**Female**	**Rural**	**Urban**	**Govt.**	**Aided**	**SC**	**ST**	**OBC**	**GEN**
32.49	**32.56**	**32.42**	**33.40**	**30.00**	**26.82**	**33.12**	**29.75**	**30.00**	**33.51**	**37.36**

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	28.31
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	27.09
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.	31.05
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	30.90
M702	Interprets the division and multiplication of fractions	31.27
M705	Solves problems related to daily life situations involving rational numbers	29.77
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	30.45
M707	Adds/subtracts algebraic expressions	37.38
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	26.72
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	32.88
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	42.79
M721	Interprets data using bar graph	37.31
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	25.82
M802	Finds rational numbers between two given rational numbers	30.15
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	38.51
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	33.58
M808	Uses various algebraic identities in solving problems of daily life	40.00
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	27.47
M818	Finds surface area and volume of cuboidal and cylindrical object	32.54
M819	Draws and interprets bar charts and pie charts	29.92

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
674	50.79	426	32.10	212	15.98	15	1.13

Lowest Performing Learning Outcomes (LOs)

1 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (25.82)

2 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (26.72)

3 - Solves problems on daily life situations involving addition and subtraction of fractions / decimals (27.09)

4 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (27.47)

5 - Solves problems involving large numbers by applying appropriate operations (28.31)

CSWN: **LD-** Locomotor Disability; **VI-** Visual Impairment; **HI-** Hearing Impairment; **S&LD-** Speech and Language Disability; **ID-** Intellectual Disability; **Oth-** Other Disability.

3