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

District Report Card: 2017	
State: Maharashtra	**District:** Satara
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1388

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	707	50.94	681	49.06

AREA	Rural		Urban	
	Number	%	Number	%
	1046	75.36	342	24.64

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	195	14.05	31	2.23	452	32.56	710	51.15

CWSN	LD	VI	HI	S&LD	ID	Oth
	3	3	1	0	2	37

Management	Government		Government-aided	
	Number	%	Number	%
	58	4.18	1330	95.82

Average Performance of Students in Mathematics (%)										
Overall	**Gender**		**Area**		**Management**		**Social Group**			
	Male	**Female**	**Rural**	**Urban**	**Govt.**	**Aided**	**SC**	**ST**	**OBC**	**GEN**
41.56	**40.39**	**42.77**	**42.54**	**38.56**	**38.16**	**41.70**	**38.91**	**35.48**	**42.36**	**42.04**

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	26.37
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	32.85
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.	37.13
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	41.07
M702	Interprets the division and multiplication of fractions	37.18
M705	Solves problems related to daily life situations involving rational numbers	35.73
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	26.08
M707	Adds/subtracts algebraic expressions	51.30
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	22.62
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	32.85
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	52.07
M721	Interprets data using bar graph	55.91
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	27.52
M802	Finds rational numbers between two given rational numbers	36.89
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	50.14
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	48.41
M808	Uses various algebraic identities in solving problems of daily life	55.19
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	44.57
M818	Finds surface area and volume of cuboidal and cylindrical object	33.57
M819	Draws and interprets bar charts and pie charts	53.75

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
476	34.29	462	33.29	362	26.08	88	6.34

Lowest Performing Learning Outcomes (LOs)

1 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (22.62)

2 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (26.08)

3 - Solves problems involving large numbers by applying appropriate operations (26.37)

4 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (27.52)

5 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (32.85)