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

District Report Card: 2017	
State: Gujarat	**District:** Navsari
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1283

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	598	46.61	685	53.39

AREA	Rural		Urban	
	Number	%	Number	%
	1019	79.42	264	20.58

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	19	1.48	838	65.32	297	23.15	129	10.05

CWSN	LD	VI	HI	S&LD	ID	Oth
	1	5	0	1	2	13

Management	Government		Government-aided	
	Number	%	Number	%
	1253	97.66	30	2.34

Average Performance of Students in Mathematics (%)										
Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
48.25	48.37	48.14	51.29	36.52	48.44	40.00	34.39	50.49	49.18	33.54

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	38.75
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	48.91
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.	49.19
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	45.16
M702	Interprets the division and multiplication of fractions	48.01
M705	Solves problems related to daily life situations involving rational numbers	28.29
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	47.43
M707	Adds/subtracts algebraic expressions	61.11
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	44.63
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	38.91
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	54.45
M721	Interprets data using bar graph	57.23
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	37.01
M802	Finds rational numbers between two given rational numbers	52.88
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	48.44
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	50.70
M808	Uses various algebraic identities in solving problems of daily life	62.99
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	44.93
M818	Finds surface area and volume of cuboidal and cylindrical object	35.15
M819	Draws and interprets bar charts and pie charts	59.31

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
325	25.33	374	29.15	436	33.98	148	11.54

Lowest Performing Learning Outcomes (LOs)

1 - Solves problems related to daily life situations involving rational numbers (28.29)

2 - Finds surface area and volume of cuboidal and cylindrical object (35.15)

3 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (37.01)

4 - Solves problems involving large numbers by applying appropriate operations (38.75)

5 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (38.91)