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

District Report Card: 2017	
State: Gujarat	**District:** Mahesana
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1344

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	740	55.06	604	44.94

AREA	Rural		Urban	
	Number	%	Number	%
	1213	90.25	131	9.75

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	91	6.77	31	2.31	999	74.33	223	16.59

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

Management	Government		Government-aided	
	Number	%	Number	%
	1136	84.52	208	15.48

Average Performance of Students in Mathematics (%)										
Overall	**Gender**		**Area**		**Management**		**Social Group**			
	Male	**Female**	**Rural**	**Urban**	**Govt.**	**Aided**	**SC**	**ST**	**OBC**	**GEN**
50.25	**48.46**	**52.45**	**48.95**	**62.29**	**50.21**	**50.51**	**47.77**	**35.91**	**48.78**	**59.85**

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	44.56
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	43.96
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.	51.27
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	53.06
M702	Interprets the division and multiplication of fractions	47.25
M705	Solves problems related to daily life situations involving rational numbers	43.38
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	54.98
M707	Adds/subtracts algebraic expressions	60.04
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	53.19
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	37.26
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	56.38
M721	Interprets data using bar graph	60.92
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	36.40
M802	Finds rational numbers between two given rational numbers	48.74
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	51.86
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	52.60
M808	Uses various algebraic identities in solving problems of daily life	61.37
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	44.37
M818	Finds surface area and volume of cuboidal and cylindrical object	31.05
M819	Draws and interprets bar charts and pie charts	60.12

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
315	23.44	386	28.72	404	30.06	239	17.78

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (31.05)

2 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (36.40)

3 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (37.26)

4 - Solves problems related to daily life situations involving rational numbers (43.38)

5 - Solves problems on daily life situations involving addition and subtraction of fractions / decimals (43.96)