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

District Report Card: 2017	
State: Gujarat	**District:** Kachchh
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1201

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	574	47.79	627	52.21

AREA	Rural		Urban	
	Number	%	Number	%
	936	77.94	265	22.06

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	279	23.23	18	1.50	576	47.96	328	27.31

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

Management	Government		Government-aided	
	Number	%	Number	%
	1148	95.59	53	4.41

Average Performance of Students in Mathematics (%)										
Overall	**Gender**		**Area**		**Management**		**Social Group**			
	Male	**Female**	**Rural**	**Urban**	**Govt.**	**Aided**	**SC**	**ST**	**OBC**	**GEN**
41.07	41.11	41.02	42.11	37.38	41.63	28.81	40.53	32.59	42.71	39.11

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	35.78
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	34.07
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.	40.38
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	40.89
M702	Interprets the division and multiplication of fractions	42.55
M705	Solves problems related to daily life situations involving rational numbers	31.47
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	31.76
M707	Adds/subtracts algebraic expressions	46.46
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	37.46
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	30.49
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	49.38
M721	Interprets data using bar graph	56.19
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	20.85
M802	Finds rational numbers between two given rational numbers	47.07
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	44.29
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	40.72
M808	Uses various algebraic identities in solving problems of daily life	55.54
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	38.42
M818	Finds surface area and volume of cuboidal and cylindrical object	27.52
M819	Draws and interprets bar charts and pie charts	51.87

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
415	34.55	417	34.72	282	23.48	87	7.24

Lowest Performing Learning Outcomes (LOs)

1 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (20.85)

2 - Finds surface area and volume of cuboidal and cylindrical object (27.52)

3 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (30.49)

4 - Solves problems related to daily life situations involving rational numbers (31.47)

5 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (31.76)