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

District Report Card: 2017	
State: Gujarat	**District:** Sabar Kantha
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1237

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	672	54.32	565	45.68

AREA	Rural		Urban	
	Number	%	Number	%
	1051	84.96	186	15.04

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	103	8.33	337	27.24	722	58.37	75	6.06

CWSN	LD	VI	HI	S&LD	ID	Oth
	3	1	2	0	3	8

Management	Government		Government-aided	
	Number	%	Number	%
	942	76.15	295	23.85

Average Performance of Students in Mathematics (%)										
Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
40.81	38.94	43.03	42.20	32.94	42.95	33.97	36.44	47.04	38.51	40.89

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	32.90
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	41.21
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.	42.36
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	41.37
M702	Interprets the division and multiplication of fractions	35.41
M705	Solves problems related to daily life situations involving rational numbers	31.53
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	40.93
M707	Adds/subtracts algebraic expressions	49.07
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	37.24
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	27.85
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	47.76
M721	Interprets data using bar graph	50.56
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	26.97
M802	Finds rational numbers between two given rational numbers	40.61
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	43.00
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	42.38
M808	Uses various algebraic identities in solving problems of daily life	55.70
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	39.38
M818	Finds surface area and volume of cuboidal and cylindrical object	23.27
M819	Draws and interprets bar charts and pie charts	49.88

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
436	35.25	450	36.38	248	20.05	103	8.33

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (23.27)

2 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (26.97)

3 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (27.85)

4 - Solves problems related to daily life situations involving rational numbers (31.53)

5 - Solves problems involving large numbers by applying appropriate operations (32.90)