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

District Report Card: 2017	
State: Rajasthan	**District:** Sikar
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1146

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	510	44.50	636	55.50

AREA	Rural		Urban	
	Number	%	Number	%
	1057	92.23	89	7.77

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	343	29.93	52	4.54	598	52.18	153	13.35

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

Management	Government		Government-aided	
	Number	%	Number	%
	1146	100.00	0	0.00

Average Performance of Students in Mathematics (%)										
Overall	**Gender**		**Area**		**Management**		**Social Group**			
	Male	**Female**	**Rural**	**Urban**	**Govt.**	**Aided**	**SC**	**ST**	**OBC**	**GEN**
61.37	**62.85**	**60.19**	**60.76**	**68.61**	**61.37**	**0.00**	**61.94**	**61.92**	**60.31**	**64.05**

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	64.45
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	65.50
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.	73.03
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	59.89
M702	Interprets the division and multiplication of fractions	56.28
M705	Solves problems related to daily life situations involving rational numbers	61.69
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	57.22
M707	Adds/subtracts algebraic expressions	74.26
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	65.04
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	51.66
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	62.90
M721	Interprets data using bar graph	74.78
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	46.61
M802	Finds rational numbers between two given rational numbers	68.00
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	75.83
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	73.22
M808	Uses various algebraic identities in solving problems of daily life	32.00
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	49.27
M818	Finds surface area and volume of cuboidal and cylindrical object	34.96
M819	Draws and interprets bar charts and pie charts	66.06

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
144	12.57	196	17.10	444	38.74	362	31.59

Lowest Performing Learning Outcomes (LOs)

1 - Uses various algebraic identities in solving problems of daily life (32.00)

2 - Finds surface area and volume of cuboidal and cylindrical object (34.96)

3 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (46.61)

4 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (49.27)

5 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (51.66)