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

District Report Card: 2017	
State: Jharkhand	**District:** Saraikela-kharsawan
Class: 8	**Subject:** Mathematics
Schools: 48	**Students:** 1063

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	526	49.48	537	50.52

AREA	Rural		Urban	
	Number	%	Number	%
	949	89.28	114	10.72

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	40	3.76	470	44.21	521	49.01	32	3.01

CWSN	LD	VI	HI	S&LD	ID	Oth
	1	5	4	1	1	2

Management	Government		Government-aided	
	Number	%	Number	%
	1063	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
54.68	53.70	55.63	54.10	59.47	54.68	0.00	55.17	50.20	57.91	67.08

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	53.64
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	60.19
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.	62.83
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	58.69
M702	Interprets the division and multiplication of fractions	50.05
M705	Solves problems related to daily life situations involving rational numbers	51.83
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	44.89
M707	Adds/subtracts algebraic expressions	69.90
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	47.54
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	42.06
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	55.76
M721	Interprets data using bar graph	72.35
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	50.76
M802	Finds rational numbers between two given rational numbers	55.49
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	70.84
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	68.37
M808	Uses various algebraic identities in solving problems of daily life	45.64
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	44.24
M818	Finds surface area and volume of cuboidal and cylindrical object	30.87
M819	Draws and interprets bar charts and pie charts	53.34

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
181	17.03	256	24.08	409	38.48	217	20.41

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (30.87)

2 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (42.06)

3 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (44.24)

4 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (44.89)

5 - Uses various algebraic identities in solving problems of daily life (45.64)