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

District Report Card: 2017	
State: Odisha	**District:** Bargarh
Class: 8	**Subject:** Mathematics
Schools: 50	**Students:** 1230

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	594	48.29	636	51.71

AREA	Rural		Urban	
	Number	%	Number	%
	1107	90.00	123	10.00

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	287	23.33	313	25.45	588	47.80	42	3.41

CWSN	LD	VI	HI	S&LD	ID	Oth
	7	6	2	2	2	1

Management	Government		Government-aided	
	Number	%	Number	%
	1161	94.39	69	5.61

Average Performance of Students in Mathematics (%)										
Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
38.31	39.36	37.34	38.15	39.84	37.88	45.70	37.35	33.87	41.25	36.98

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	30.72
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	46.73
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.	38.00
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	28.59
M702	Interprets the division and multiplication of fractions	35.37
M705	Solves problems related to daily life situations involving rational numbers	32.60
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	40.45
M707	Adds/subtracts algebraic expressions	42.68
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	25.57
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	34.48
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	51.09
M721	Interprets data using bar graph	53.56
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	26.54
M802	Finds rational numbers between two given rational numbers	35.28
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	44.12
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	36.41
M808	Uses various algebraic identities in solving problems of daily life	45.47
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	37.08
M818	Finds surface area and volume of cuboidal and cylindrical object	20.55
M819	Draws and interprets bar charts and pie charts	40.65

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
504	40.98	386	31.38	264	21.46	76	6.18

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (20.55)

2 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (25.57)

3 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (26.54)

4 - Arranges given/collected information in the form of table, pictograph and bar graph and interprets them (28.59)

5 - Solves problems involving large numbers by applying appropriate operations (30.72)