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

District Report Card: 2017	
State: Odisha	**District:** Malkangiri
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1178

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	636	53.99	542	46.01

AREA	Rural		Urban	
	Number	%	Number	%
	999	84.80	179	15.20

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	434	36.84	543	46.10	65	5.52	136	11.54

CWSN	LD	VI	HI	S&LD	ID	Oth
	1	3	3	0	2	10

Management	Government		Government-aided	
	Number	%	Number	%
	1049	89.05	129	10.95

Average Performance of Students in Mathematics (%)										
Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
44.96	42.69	47.61	46.26	37.69	44.97	44.86	49.26	42.27	43.28	42.75

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	42.59
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	44.31
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.	49.20
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	45.00
M702	Interprets the division and multiplication of fractions	40.58
M705	Solves problems related to daily life situations involving rational numbers	43.21
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	58.53
M707	Adds/subtracts algebraic expressions	58.66
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	30.27
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	36.90
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	51.59
M721	Interprets data using bar graph	53.18
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	38.63
M802	Finds rational numbers between two given rational numbers	29.77
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	47.93
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	43.14
M808	Uses various algebraic identities in solving problems of daily life	47.16
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	38.40
M818	Finds surface area and volume of cuboidal and cylindrical object	28.76
M819	Draws and interprets bar charts and pie charts	50.25

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
354	30.05	396	33.62	280	23.77	148	12.56

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (28.76)

2 - Finds rational numbers between two given rational numbers (29.77)

3 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (30.27)

4 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (36.90)

5 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (38.40)