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

District Report Card: 2017	
State: Odisha	**District:** Mayurbhanj
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1437

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	645	44.89	792	55.11

AREA	Rural		Urban	
	Number	%	Number	%
	1322	92.00	115	8.00

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	90	6.26	1033	71.89	265	18.44	49	3.41

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

Management	Government		Government-aided	
	Number	%	Number	%
	1009	70.22	428	29.78

Average Performance of Students in Mathematics (%)										
Overall	**Gender**		**Area**		**Management**		**Social Group**			
	Male	**Female**	**Rural**	**Urban**	**Govt.**	**Aided**	**SC**	**ST**	**OBC**	**GEN**
33.08	**30.75**	**34.97**	**33.55**	**27.65**	**30.25**	**39.75**	**27.70**	**32.43**	**37.18**	**34.42**

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	26.94
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	31.11
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.	33.01
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	24.31
M702	Interprets the division and multiplication of fractions	30.69
M705	Solves problems related to daily life situations involving rational numbers	23.66
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	36.82
M707	Adds/subtracts algebraic expressions	41.61
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	22.18
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	28.47
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	42.51
M721	Interprets data using bar graph	47.56
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	31.24
M802	Finds rational numbers between two given rational numbers	31.80
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	37.64
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	43.10
M808	Uses various algebraic identities in solving problems of daily life	40.86
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	28.98
M818	Finds surface area and volume of cuboidal and cylindrical object	16.88
M819	Draws and interprets bar charts and pie charts	34.03

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
681	47.39	448	31.18	247	17.19	61	4.24

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (16.88)

2 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (22.18)

3 - Solves problems related to daily life situations involving rational numbers (23.66)

4 - Arranges given/collected information in the form of table, pictograph and bar graph and interprets them (24.31)

5 - Solves problems involving large numbers by applying appropriate operations (26.94)