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

Government of India
MHRD

District Report Card: 2017	
State: Odisha	**District:** Angul
Class: 8	**Subject:** Mathematics
Schools: 50	**Students:** 1235

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	623	50.45	612	49.55

AREA	Rural		Urban	
	Number	%	Number	%
	1235	100.00	0	0.00

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	337	27.29	222	17.98	630	51.01	46	3.72

CWSN	LD	VI	HI	S&LD	ID	Oth
	6	7	1	5	3	7

Management	Government		Government-aided	
	Number	%	Number	%
	1176	95.22	59	4.78

Average Performance of Students in Mathematics (%)										
Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
50.24	48.42	52.09	50.24	0.00	49.85	58.08	46.35	46.34	53.16	57.54

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	45.10
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	53.59
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.	56.79
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	46.73
M702	Interprets the division and multiplication of fractions	48.66
M705	Solves problems related to daily life situations involving rational numbers	46.72
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	55.06
M707	Adds/subtracts algebraic expressions	61.70
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	47.67
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	31.54
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	55.71
M721	Interprets data using bar graph	58.75
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	38.52
M802	Finds rational numbers between two given rational numbers	46.87
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	56.70
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	55.86
M808	Uses various algebraic identities in solving problems of daily life	54.90
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	41.74
M818	Finds surface area and volume of cuboidal and cylindrical object	30.34
M819	Draws and interprets bar charts and pie charts	54.33

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
334	27.04	297	24.05	271	21.94	333	26.96

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (30.34)

2 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (31.54)

3 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (38.52)

4 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (41.74)

5 - Solves problems involving large numbers by applying appropriate operations (45.10)

CSWN: **LD-** Locomotor Disability; **VI-** Visual Impairment; **HI-** Hearing Impairment;
        S&LD- Speech and Language Disability; **ID-** Intellectual Disability; **Oth-** Other Disability.