



District Report Card: 2017


State: Odisha	District: Cuttack
Class: 8	Subject: Mathematics
Schools: 51	Students: 1312


Participation/Coverage


Students

<div>GENDER</div> <div></div>	Boys		Girls	
	Number	%	Number	%
	651	49.62	661	50.38

<div>AREA</div> <div></div>	Rural		Urban	
	Number	%	Number	%
	1056	80.49	256	19.51

<div>CATEGORY</div> <div></div>	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	358	27.29	54	4.12	674	51.37	226	17.23

<div>CWSN</div> <div></div>	LD	VI	HI	S&LD	ID	Oth
	1	5	0	0	5	12

<div>Management</div> <div></div>	Government		Government-aided	
	Number	%	Number	%
	1072	81.71	240	18.29

Average Performance of Students in Mathematics (%)

Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
53.90	56.16	51.68	54.34	52.08	54.61	50.75	51.64	49.51	55.88	52.65

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	42.16
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	57.53
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.	60.89
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	43.38
M702	Interprets the division and multiplication of fractions	51.52
M705	Solves problems related to daily life situations involving rational numbers	40.63
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	56.34
M707	Adds/subtracts algebraic expressions	63.41
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	37.86
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	40.94
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	61.45
M721	Interprets data using bar graph	70.23
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	53.13
M802	Finds rational numbers between two given rational numbers	44.43
M803	Proves divisibility rules of 2, 3, 4, 5, 6, 9 and 11	61.19
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	66.87
M808	Uses various algebraic identities in solving problems of daily life	70.84
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	45.76
M818	Finds surface area and volume of cuboidal and cylindrical object	45.04
M819	Draws and interprets bar charts and pie charts	55.87

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
268	20.43	316	24.09	448	34.15	280	21.34

Lowest Performing Learning Outcomes (LOs)

- 1 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (37.86)
- 2 - Solves problems related to daily life situations involving rational numbers (40.63)
- 3 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (40.94)

4 - Solves problems involving large numbers by applying appropriate operations (42.16)

5 - Arranges given/collected information in the form of table, pictograph and bar graph and interprets them (43.38)