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

District Report Card: 2017	
State: West Bengal	**District:** Puruliya
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1100

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	476	43.27	624	56.73

AREA	Rural		Urban	
	Number	%	Number	%
	1027	93.36	73	6.64

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	247	22.45	187	17.00	535	48.64	131	11.91

CWSN	LD	VI	HI	S&LD	ID	Oth
	1	3	2	4	4	3

Management	Government		Government-aided	
	Number	%	Number	%
	142	12.91	958	87.09

Average Performance of Students in Mathematics (%)										
Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
34.09	35.42	33.08	33.22	46.30	30.33	34.65	37.14	29.88	33.61	36.34

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	37.69
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	34.89
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.	32.82
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	33.58
M702	Interprets the division and multiplication of fractions	31.27
M705	Solves problems related to daily life situations involving rational numbers	27.18
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	25.18
M707	Adds/subtracts algebraic expressions	43.09
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	27.84
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	33.02
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	46.70
M721	Interprets data using bar graph	40.43
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	24.82
M802	Finds rational numbers between two given rational numbers	34.75
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	34.70
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	33.69
M808	Uses various algebraic identities in solving problems of daily life	46.28
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	24.94
M818	Finds surface area and volume of cuboidal and cylindrical object	29.96
M819	Draws and interprets bar charts and pie charts	34.91

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
531	48.27	364	33.09	167	15.18	38	3.45

Lowest Performing Learning Outcomes (LOs)

1 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (24.82)

2 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (24.94)

3 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (25.18)

4 - Solves problems related to daily life situations involving rational numbers (27.18)

5 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (27.84)