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

District Report Card: 2017	
State: Jharkhand	**District:** Hazaribag
Class: 8	**Subject:** Mathematics
Schools: 48	**Students:** 1284

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	529	41.20	755	58.80

AREA	Rural		Urban	
	Number	%	Number	%
	1204	93.77	80	6.23

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	223	17.37	53	4.13	953	74.22	55	4.28

CWSN	LD	VI	HI	S&LD	ID	Oth
	1	3	0	4	0	56

Management	Government		Government-aided	
	Number	%	Number	%
	1224	95.33	60	4.67

Average Performance of Students in Mathematics (%)										
Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
60.10	61.11	59.39	60.90	48.08	61.06	40.44	54.65	54.97	61.76	58.42

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	59.11
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	67.38
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.	68.77
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	59.26
M702	Interprets the division and multiplication of fractions	60.75
M705	Solves problems related to daily life situations involving rational numbers	57.94
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	60.38
M707	Adds/subtracts algebraic expressions	78.43
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	60.54
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	44.10
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	60.66
M721	Interprets data using bar graph	74.96
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	36.29
M802	Finds rational numbers between two given rational numbers	61.49
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	76.72
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	71.95
M808	Uses various algebraic identities in solving problems of daily life	36.45
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	50.03
M818	Finds surface area and volume of cuboidal and cylindrical object	34.87
M819	Draws and interprets bar charts and pie charts	63.01

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
163	12.69	244	19.00	521	40.58	356	27.73

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (34.87)

2 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (36.29)

3 - Uses various algebraic identities in solving problems of daily life (36.45)

4 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (44.10)

5 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (50.03)