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

District Report Card: 2017	
State: Jharkhand	**District:** Pakaur
Class: 8	**Subject:** Mathematics
Schools: 49	**Students:** 1056

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	530	50.19	526	49.81

AREA	Rural		Urban	
	Number	%	Number	%
	924	87.50	132	12.50

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	52	4.92	251	23.77	704	66.67	49	4.64

CWSN	LD	VI	HI	S&LD	ID	Oth
	4	3	2	0	2	9

Management	Government		Government-aided	
	Number	%	Number	%
	1032	97.73	24	2.27

Average Performance of Students in Mathematics (%)										
Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
56.60	55.41	57.79	57.55	49.90	56.83	46.67	47.95	49.75	59.72	56.05

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	50.19
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	74.81
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.	69.08
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	57.71
M702	Interprets the division and multiplication of fractions	56.53
M705	Solves problems related to daily life situations involving rational numbers	56.72
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	48.85
M707	Adds/subtracts algebraic expressions	73.11
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	54.96
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	42.67
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	58.19
M721	Interprets data using bar graph	68.51
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	33.40
M802	Finds rational numbers between two given rational numbers	57.44
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	76.88
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	64.50
M808	Uses various algebraic identities in solving problems of daily life	38.55
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	42.44
M818	Finds surface area and volume of cuboidal and cylindrical object	26.91
M819	Draws and interprets bar charts and pie charts	60.04

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
155	14.68	221	20.93	473	44.79	207	19.60

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (26.91)

2 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (33.40)

3 - Uses various algebraic identities in solving problems of daily life (38.55)

4 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (42.44)

5 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (42.67)