



### District Report Card: 2017


<b>State:</b> Jharkhand	<b>District:</b> Bokaro
<b>Class:</b> 8	<b>Subject:</b> Mathematics
<b>Schools:</b> 49	<b>Students:</b> 1216


### Participation/Coverage


#### Students

<div>GENDER</div> <div></div>	Boys				Girls			
	Number		%		Number		%	
	512		42.11		704		57.89	

<div>AREA</div> <div></div>	Rural				Urban			
	Number		%		Number		%	
	1080		88.82		136		11.18	

<div>CATEGORY</div> <div></div>	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	213	17.52	213	17.52	700	57.57	90	7.40

<div>CWSN</div> <div></div>	LD	VI	HI	S&LD	ID	Oth
	5	3	0	1	2	7

<div>Management</div> <div></div>	Government			Government-aided		
	Number		%	Number		%
	1187		97.62	29		2.38

### Average Performance of Students in Mathematics (%)

Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
53.77	53.03	54.31	51.96	68.14	54.32	31.49	51.61	51.71	55.37	51.33

## Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	54.28
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	60.36
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.	64.53
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	47.70
M702	Interprets the division and multiplication of fractions	53.78
M705	Solves problems related to daily life situations involving rational numbers	50.49
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	44.41
M707	Adds/subtracts algebraic expressions	71.30
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	50.82
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	34.70
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	58.44
M721	Interprets data using bar graph	68.91
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	37.66
M802	Finds rational numbers between two given rational numbers	50.49
M803	Proves divisibility rules of 2, 3, 4, 5, 6, 9 and 11	66.28
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	73.52
M808	Uses various algebraic identities in solving problems of daily life	44.90
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	46.11
M818	Finds surface area and volume of cuboidal and cylindrical object	31.74
M819	Draws and interprets bar charts and pie charts	44.49

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
193	15.87	303	24.92	546	44.90	174	14.31

## Lowest Performing Learning Outcomes (LOs)

- 1 - Finds surface area and volume of cuboidal and cylindrical object (31.74)
- 2 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (34.70)
- 3 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (37.66)

- 4 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (44.41)
- 5 - Draws and interprets bar charts and pie charts (44.49)