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

Government of India
MHRD

NCERT

District Report Card: 2017	
State: Karnataka	**District:** Ballari
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1470

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	721	49.05	749	50.95

AREA	Rural		Urban	
	Number	%	Number	%
	1086	73.88	384	26.12

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	403	27.41	367	24.97	641	43.61	59	4.01

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

Management	Government		Government-aided	
	Number	%	Number	%
	1051	71.50	419	28.50

Average Performance of Students in Mathematics (%)										
Overall	**Gender**		**Area**		**Management**		**Social Group**			
	Male	**Female**	**Rural**	**Urban**	**Govt.**	**Aided**	**SC**	**ST**	**OBC**	**GEN**
58.75	**60.24**	**57.32**	**62.76**	**47.41**	**60.26**	**54.97**	**59.22**	**59.11**	**58.48**	**56.27**

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	61.90
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	67.62
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.	60.77
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	65.85
M702	Interprets the division and multiplication of fractions	42.04
M705	Solves problems related to daily life situations involving rational numbers	61.16
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	61.77
M707	Adds/subtracts algebraic expressions	71.29
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	53.74
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	51.16
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	77.37
M721	Interprets data using bar graph	64.63
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	28.71
M802	Finds rational numbers between two given rational numbers	50.61
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	65.85
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	64.63
M808	Uses various algebraic identities in solving problems of daily life	74.42
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	41.81
M818	Finds surface area and volume of cuboidal and cylindrical object	37.55
M819	Draws and interprets bar charts and pie charts	62.65

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
208	14.15	228	15.51	730	49.66	304	20.68

Lowest Performing Learning Outcomes (LOs)

1 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (28.71)

2 - Finds surface area and volume of cuboidal and cylindrical object (37.55)

3 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (41.81)

4 - Interprets the division and multiplication of fractions (42.04)

5 - Finds rational numbers between two given rational numbers (50.61)