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

District Report Card: 2017	
State: Karnataka	**District:** Davanagere
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 1435

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	710	49.48	725	50.52

AREA	Rural		Urban	
	Number	%	Number	%
	1079	75.19	356	24.81

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	379	26.41	212	14.77	717	49.97	127	8.85

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

Management	Government		Government-aided	
	Number	%	Number	%
	681	47.46	754	52.54

Average Performance of Students in Mathematics (%)										
Overall	**Gender**		**Area**		**Management**		**Social Group**			
	Male	**Female**	**Rural**	**Urban**	**Govt.**	**Aided**	**SC**	**ST**	**OBC**	**GEN**
53.93	**53.35**	**54.49**	**55.51**	**49.12**	**55.68**	**52.34**	**51.77**	**56.51**	**53.76**	**57.01**

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	56.40
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	59.56
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.	53.98
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	55.30
M702	Interprets the division and multiplication of fractions	40.49
M705	Solves problems related to daily life situations involving rational numbers	52.47
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	64.83
M707	Adds/subtracts algebraic expressions	69.97
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	46.47
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	38.38
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	70.12
M721	Interprets data using bar graph	66.95
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	37.01
M802	Finds rational numbers between two given rational numbers	52.97
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	65.34
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	73.16
M808	Uses various algebraic identities in solving problems of daily life	62.29
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	37.23
M818	Finds surface area and volume of cuboidal and cylindrical object	32.34
M819	Draws and interprets bar charts and pie charts	48.50

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
256	17.84	305	21.25	660	45.99	214	14.91

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (32.34)

2 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (37.01)

3 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (37.23)

4 - Finds out approximate area of closed shapes by using unit square grid/graph sheet (38.38)

5 - Interprets the division and multiplication of fractions (40.49)