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

District Report Card: 2017	
State: Haryana	**District:** Mahendragarh
Class: 8	**Subject:** Mathematics
Schools: 44	**Students:** 921

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	397	43.11	524	56.89

AREA	Rural		Urban	
	Number	%	Number	%
	781	84.80	140	15.20

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	434	47.12	2	0.22	355	38.55	130	14.12

CWSN	LD	VI	HI	S&LD	ID	Oth
	2	2	0	4	2	39

Management	Government		Government-aided	
	Number	%	Number	%
	909	98.70	12	1.30

Average Performance of Students in Mathematics (%)										
Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
40.61	36.89	43.42	39.80	45.14	40.76	29.44	38.66	56.67	42.65	41.28

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	29.24
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	35.94
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.	38.50
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	23.88
M702	Interprets the division and multiplication of fractions	39.63
M705	Solves problems related to daily life situations involving rational numbers	36.59
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	27.06
M707	Adds/subtracts algebraic expressions	43.00
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	34.46
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	31.47
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	59.02
M721	Interprets data using bar graph	61.95
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	31.29
M802	Finds rational numbers between two given rational numbers	37.00
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	52.68
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	47.15
M808	Uses various algebraic identities in solving problems of daily life	40.80
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	36.38
M818	Finds surface area and volume of cuboidal and cylindrical object	14.80
M819	Draws and interprets bar charts and pie charts	55.37

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
319	34.64	350	38.00	187	20.30	65	7.06

Lowest Performing Learning Outcomes (LOs)

1 - Finds surface area and volume of cuboidal and cylindrical object (14.80)

2 - Arranges given/collected information in the form of table, pictograph and bar graph and interprets them (23.88)

3 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (27.06)

4 - Solves problems involving large numbers by applying appropriate operations (29.24)

5 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (31.29)