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: Meghalaya	**District:** West Garo Hills
Class: 8	**Subject:** Mathematics
Schools: 51	**Students:** 901

Participation/Coverage

Students

GENDER	Boys		Girls	
	Number	%	Number	%
	385	42.73	516	57.27

AREA	Rural		Urban	
	Number	%	Number	%
	620	68.81	281	31.19

CATEGORY	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	31	3.44	753	83.57	22	2.44	95	10.54

CWSN	LD	VI	HI	S&LD	ID	Oth
	3	0	2	1	11	5

Management	Government		Government-aided	
	Number	%	Number	%
	192	21.31	709	78.69

Average Performance of Students in Mathematics (%)										
Overall	**Gender**		**Area**		**Management**		**Social Group**			
	Male	**Female**	**Rural**	**Urban**	**Govt.**	**Aided**	**SC**	**ST**	**OBC**	**GEN**
32.82	**31.91**	**33.50**	**35.00**	**28.02**	**35.76**	**32.03**	**30.54**	**31.20**	**38.48**	**45.12**

Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	32.75
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	30.13
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.	26.93
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	27.07
M702	Interprets the division and multiplication of fractions	28.52
M705	Solves problems related to daily life situations involving rational numbers	30.85
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	23.02
M707	Adds/subtracts algebraic expressions	42.62
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	16.25
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	32.10
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	42.60
M721	Interprets data using bar graph	39.05
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	24.60
M802	Finds rational numbers between two given rational numbers	38.15
M803	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	34.72
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	36.79
M808	Uses various algebraic identities in solving problems of daily life	43.12
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	19.13
M818	Finds surface area and volume of cuboidal and cylindrical object	40.18
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	%
422	46.84	372	41.29	94	10.43	13	1.44

Lowest Performing Learning Outcomes (LOs)

1 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (16.25)

2 - Verifies properties of parallelogram and establishes the relationship between them through reasoning (19.13)

3 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (23.02)

4 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (24.60)

5 - Finds out the perimeter and area of rectangular objects in the surroundings like floor of the class room, surfaces of a chalk box etc. (26.93)

CSWN: **LD-** Locomotor Disability; **VI-** Visual Impairment; **HI-** Hearing Impairment;
         S&LD- Speech and Language Disability; **ID-** Intellectual Disability; **Oth-** Other Disability.

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