



**District Report Card: 2017**


<b>State:</b> Kerala	<b>District:</b> Idukki
<b>Class:</b> 8	<b>Subject:</b> Mathematics
<b>Schools:</b> 51	<b>Students:</b> 1226


**Participation/Coverage**


**Students**

<b>GENDER</b> 	Boys		Girls	
	Number	%	Number	%
	622	50.73	604	49.27

<b>AREA</b> 	Rural		Urban	
	Number	%	Number	%
	1173	95.68	53	4.32

<b>CATEGORY</b> 	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	142	11.58	137	11.17	405	33.03	542	44.21

<b>CWSN</b> 	LD	VI	HI	S&LD	ID	Oth
	1	1	1	0	1	5

<b>Management</b> 	Government		Government-aided	
	Number	%	Number	%
	436	35.56	790	64.44

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

Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
47.85	49.01	46.64	47.86	47.55	47.20	48.20	44.55	47.69	48.69	48.12

## Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	46.78
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	48.14
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.	39.43
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	48.98
M702	Interprets the division and multiplication of fractions	42.41
M705	Solves problems related to daily life situations involving rational numbers	46.57
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	40.25
M707	Adds/subtracts algebraic expressions	50.41
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	40.25
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	44.58
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	59.97
M721	Interprets data using bar graph	56.76
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	37.26
M802	Finds rational numbers between two given rational numbers	43.71
M803	Proves divisibility rules of 2, 3, 4, 5, 6, 9 and 11	49.66
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	39.31
M808	Uses various algebraic identities in solving problems of daily life	53.14
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	53.85
M818	Finds surface area and volume of cuboidal and cylindrical object	45.91
M819	Draws and interprets bar charts and pie charts	51.71

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
429	34.99	387	31.57	98	7.99	312	25.45

## Lowest Performing Learning Outcomes (LOs)

1 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (37.26)

2 - Finds squares, cubes, square roots and cube roots of numbers using different methods (39.31)

- 3 - Finds out the perimeter and area of rectangular objects in the surroundings like floor of the class room, surfaces of a chalk box etc. (39.43)
- 4 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (40.25)
- 5 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (40.25)