



### District Report Card: 2017


<b>State:</b> Goa	<b>District:</b> South Goa
<b>Class:</b> 8	<b>Subject:</b> Mathematics
<b>Schools:</b> 110	<b>Students:</b> 2930


### Participation/Coverage


#### Students

<div>GENDER</div> <div></div>	Boys		Girls	
	Number	%	Number	%
	1497	51.09	1433	48.91

<div>AREA</div> <div></div>	Rural		Urban	
	Number	%	Number	%
	1527	52.12	1403	47.88

<div>CATEGORY</div> <div></div>	SC		ST		OBC		GEN	
	Number	%	Number	%	Number	%	Number	%
	68	2.32	410	13.99	308	10.51	2144	73.17

<div>CWSN</div> <div></div>	LD	VI	HI	S&LD	ID	Oth
	2	10	3	4	7	57

<div>Management</div> <div></div>	Government		Government-aided	
	Number	%	Number	%
	353	12.05	2577	87.95

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

Overall	Gender		Area		Management		Social Group			
	Male	Female	Rural	Urban	Govt.	Aided	SC	ST	OBC	GEN
34.33	34.65	34.00	33.85	34.86	29.24	35.03	34.31	32.55	36.45	34.37

## Performance on Learning Outcomes (LOs)

Learning Outcomes	Description	Average Performance(%)
M601	Solves problems involving large numbers by applying appropriate operations	26.55
M606	Solves problems on daily life situations involving addition and subtraction of fractions / decimals	21.37
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.	30.88
M621	Arranges given/collected information in the form of table, pictograph and bar graph and interprets them	32.29
M702	Interprets the division and multiplication of fractions	35.94
M705	Solves problems related to daily life situations involving rational numbers	30.58
M706	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers	15.22
M707	Adds/subtracts algebraic expressions	34.88
M710	Solves problems related to conversion of percentage to fraction and decimal and vice versa	19.39
M717	Finds out approximate area of closed shapes by using unit square grid/graph sheet	27.71
M719	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	49.90
M721	Interprets data using bar graph	49.69
M801	Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns	22.73
M802	Finds rational numbers between two given rational numbers	33.52
M803	Proves divisibility rules of 2, 3, 4, 5, 6, 9 and 11	33.24
M804	Finds squares, cubes, square roots and cube roots of numbers using different methods	28.74
M808	Uses various algebraic identities in solving problems of daily life	52.63
M812	Verifies properties of parallelogram and establishes the relationship between them through reasoning	38.57
M818	Finds surface area and volume of cuboidal and cylindrical object	26.21
M819	Draws and interprets bar charts and pie charts	39.97

Range of Performance of Students who Answered Correctly							
Below 30%		30% - 50%		50% - 75%		Above 75%	
Number	%	Number	%	Number	%	Number	%
1274	43.48	1176	40.14	444	15.15	36	1.23

## Lowest Performing Learning Outcomes (LOs)

- 1 - Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers (15.22)
- 2 - Solves problems related to conversion of percentage to fraction and decimal and vice versa (19.39)
- 3 - Solves problems on daily life situations involving addition and subtraction of fractions / decimals (21.37)

4 - Generalizes properties of addition, subtraction, multiplication and division of rational numbers through patterns (22.73)

5 - Finds surface area and volume of cuboidal and cylindrical object (26.21)