

EVERSHINE

echo series

MASTERING MATHEMATICS

Part - 4



Written by :
Kavita Kapse Gupte

Edited by :
Mrs. Prem Lata Choudhary
M.A. (Maths) B.Ed

EVERSHINE[®]  **PUBLISHERS**

Soni House, WZ-348, Nangal Raya, New Delhi - 110046

Phones : 28111758, 28112353

E-mail: evershinepub@gmail.com

Every effort has been made to avoid errors/ omissions in this book. In spite of this some mistakes might have left. Any mistake or discrepancy noted may be brought to our notice. Which shall be taken care of in the next edition. No part of this book may be reproduced or copied in any shape without written permission of the publishers.

© publishers

Published by:

Evershine publishers



Designed and Illustrated by : Anil Kumar



Printed by : MAYA ENTERPRISES, NEW DELHI-64

220

PREFACE

We are very pleased to present the new series 'Mastering Mathematics'.

The series comprises of eight books for classes I to VIII.

The series has been aimed at building a strong foundation with clear concepts and providing a great deal of practice in mathematics.

The Subject matter has been produced in such a way that it focuses on the development of the understanding, thinking and reasoning skill of the students.

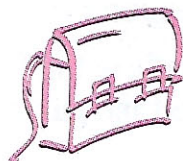
The subject matter has been presented keeping in mind the principle that mathematics teaching involves the mastery of one skill before progressing to another. The age, the mental level and the difficulties faced by the students at all levels have also been thought of while presenting different concepts.

Everything has been explained elaborately with plenty of illustrations so that the things might be crystal clear.

The latest syllabus prescribed by N.C.E.R.T. has been strictly followed and no stone has been left unturned in making the students equipped with the ability to understand and solve problems confidently.

The series of books is the result of sincere efforts of the entire team which will certainly help young minds to master in mathematics.

Suggestions for the improvement of the books will be gratefully acknowledged.

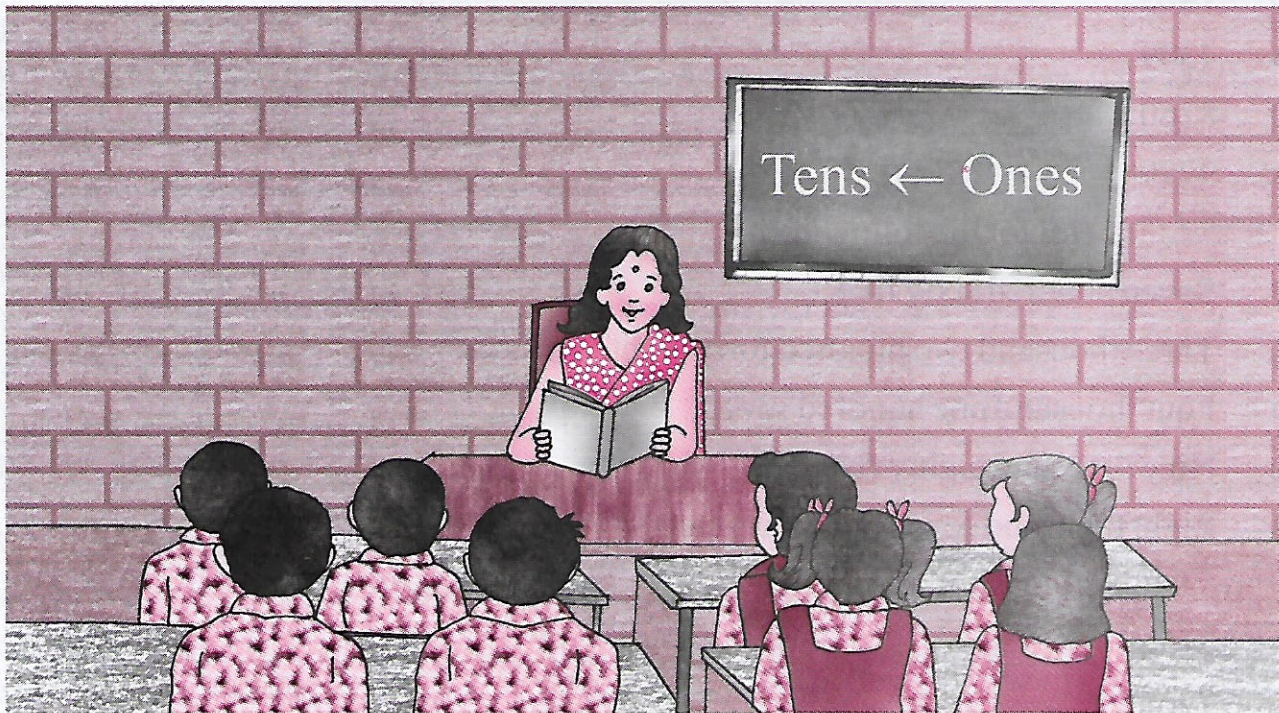


CONTENTS

S. No.	Lesson	Page No.
1.	Numbers and Numeration	5
2.	Addition and Subtraction	32
3.	Multiplication	52
4.	Division	66
5.	Unitary Method	78
6.	Multiples and Factors	82
7.	Fractional Numbers	90
8.	Estimation	114
9.	Length, Mass and Capacity	129
10.	Time	154
11.	Money	166
12.	Geometry	174
13.	Symmetry and Patterns	186
14.	Data Handling	196
	Model Test Papers	201
	Answers	204
	Annual Test Paper,	217

UNIT 1

Numbers and Numeration



The first day of school : In the maths class

Mrs. Chandra : In the previous class you have learnt the numbers upto ten thousand their addition, subtraction, multiplication etc. This year, you are going to learn even higher numbers.

Shreya : Which numbers are higher than ten thousands ?

Mrs. Chandra : The number that are higher than ten thousands are in lakhs, ten lakhs, crores etc.

In a number the value of each place is ten times more than the value of its previous place. For example if 6 is at ones place its value is 6 ones or 6. Similarly, if 3 is at tens place its value is 3 tens or 30 and so on.

Okay, now tell me what are the places that the numbers upto ten thousands have?

Vikas : Starting from the right hand side, the first place is ones, the second place is tens, the third place is hundreds, the fourth place is thousands and the fifth place is ten thousands.

Ten Thousands ← Thousands ← Hundreds ← Tens ← Ones

Mrs. chandra : That is absolutely correct Vikas. Now, let us have a thorough revision of what has been learnt in class III.



Revision Exercise

1. Write the name of the following numbers :
- (a) 6282 _____
- (b) 1425 _____
- (c) 7309 _____
- (d) 8260 _____
- (e) 9999 _____
2. Write the numeral for the following number names :
- (a) Seven hundred sixty five _____
- (b) Three thousand two hundred forty eight _____
- (c) Four thousand one hundred seven _____
- (d) Nine thousand eighty five _____
- (e) Eight thousand seven hundred nineteen _____
3. Write the following numbers in expanded form in words :
- (a) 1456 _____
- (b) 2768 _____
- (c) 3027 _____
- (d) 5906 _____
- (e) 8565 _____
4. Write the following numbers in expanded form in numerals :
- (a) 7153 _____
- (b) 8327 _____
- (c) 1050 _____
- (d) 3158 _____
- (e) 9154 _____
5. Write the following numbers in short form :
- (a) $3000 + 200 + 80 + 6$ _____
- (b) $7000 + 70 + 8$ _____
- (c) $1000 + 200 + 5$ _____
- (d) $4000 + 500 + 60 + 7$ _____
- (e) $9000 + 900 + 90 + 9$ _____

6. Write the face value, place and place value of the coloured digit :

	Number	Face value	Place	Place value
(a)	8485			
(b)	7928			
(c)	3605			
(d)	1435			
(e)	5976			

7. Write the following numbers in the place value chart :

		Thousands	Hundreds	Tens	Ones
(a)	4317				
(b)	7086				
(c)	2795				
(d)	6508				
(e)	9671				

8. Write the following numbers in ascending order :

- (a) 1432, 7156, 3268, 4954 (b) 4261, 4118, 4601, 4016
- (c) 7853, 7639, 7905, 7863 (d) 8762, 5392, 8621, 5402
- (e) 7629, 7586, 7832, 7057 (f) 1948, 1932, 1870, 1856

9. Write the following numbers in descending order :

- (a) 1645, 1087, 1806, 1256 (b) 3458, 6239, 8762, 9547
- (c) 4927, 3945, 8937, 987 (d) 6315, 6827, 6192, 6428

10. Form the smallest and biggest numbers using the digits :

	Digits	Smallest number	Biggest number
(a)	4, 3, 0, 5	_____	_____
(b)	7, 1, 8, 6	_____	_____
(c)	3, 9, 1, 2	_____	_____
(d)	8, 0, 5, 4	_____	_____
(e)	6, 2, 5, 7	_____	_____

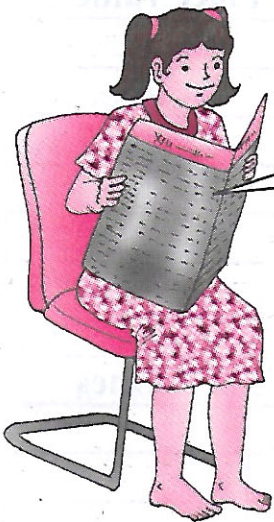
11. Fill in the blanks :

- (a) The biggest one digit number + 1 = _____
- (b) The biggest three digit number + 1 = _____
- (c) The smallest three digit number - 1 = _____
- (d) The smallest four digit number - 1 = _____
- (e) The predecessor and successor of 7800 are :
 Predecessor _____, Successor _____



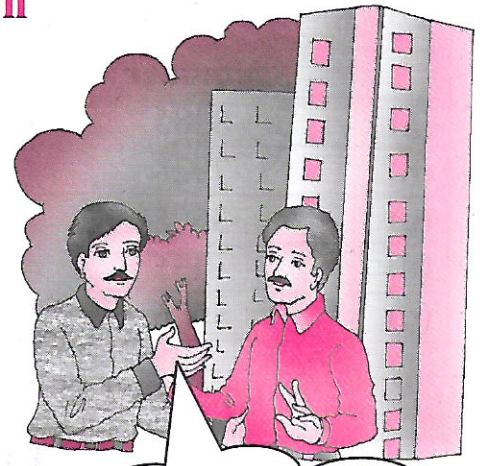
Numbers and Numeration

Shreya reads in a newspaper.



The population of this city is twenty five lakh.

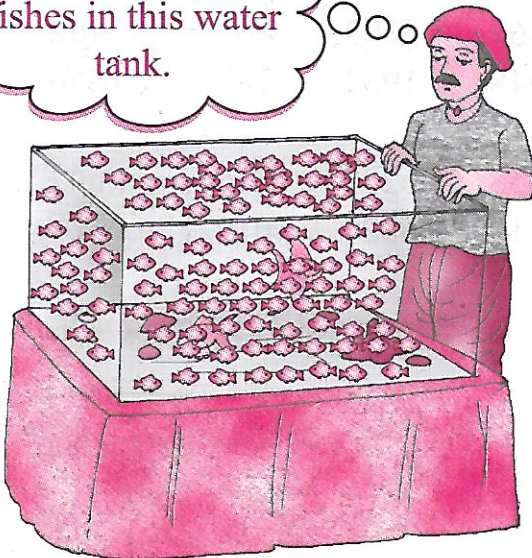
Vikas heard from his uncle.



The cost of this house is fifty five lakh rupees.

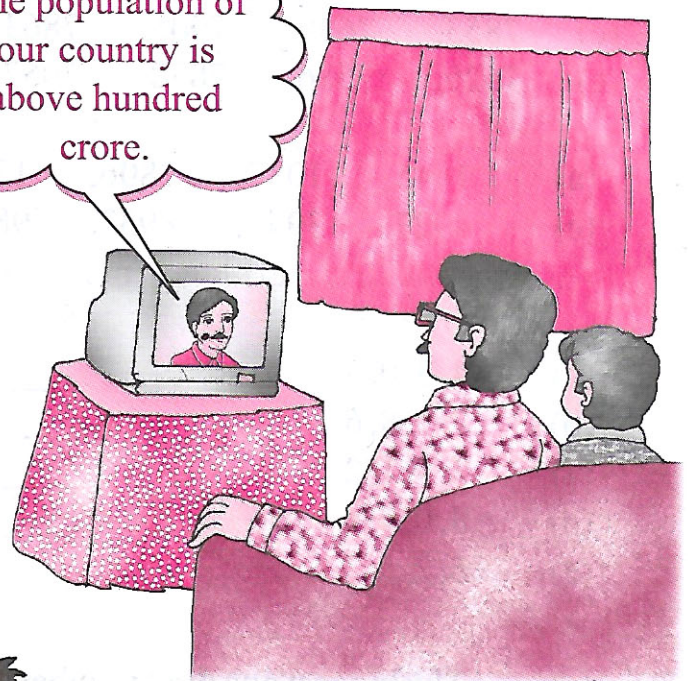
That day the fisherman was saying.

There are lakhs of fishes in this water tank.



In a documentary film telecasted on T.V. they were saying.

The population of our country is above hundred crore.



What does crore mean ?
Do you have any idea how many digits are there in one crore ?



What does lakh mean ?
Do you have any idea how many zeros are there in one lakh?