

Revised Edition as per CBSE Guidelines and New CCE Pattern

4

LEARNING COMPOSITE MATHEMATICS

INCLUDING

- LAB ACTIVITIES ● MENTAL MATHS
- MULTIPLE CHOICE QUESTIONS
- CLASS WORK ● WORKSHEETS

S.K. GUPTA
ANUBHUTI GANGAL



S. CHAND

Based on the Latest Syllabus Prescribed by CBSE/NCERT,
New Delhi and Other State Boards

Learning Composite Mathematics

(BOOK – IV)

For Class **4**

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Preface to the Revised Edition

The Learning Composite Mathematics Series (Books 0 to V) is an exclusive course for classes KG to 5 meant for **CBSE schools** and **all schools of other Boards** following the **latest NCERT syllabus based on the National Curriculum and the guidelines provided therein.**

The content is student-centred and activity-based laying the utmost emphasis on developing problem-solving skills, encouraging the child to think creatively and work independently. The methodology facilitates the teacher, student and the parent to ensure full involvement of child in classroom and at home.

All the mathematical concepts are presented in a very simple and interesting form introducing the concepts by using motivating scripts and stories based on everyday life and daily experiences. The examples and problems also make use of modern tools, gadgets and technology commonly used.

The approach of the authors has been designing the instruction in such a form that may create passion for mathematics in children rather than fear. It encourages them to enquire, explore and discover rather than learn by force.

Abundant use of **visual tools** such as diagrams, illustrations, cartoons, tables and charts would make learning fun and would help greater retention.

A unique feature of the series is the framing of separate sets of questions under the caption **Class Work** to reinforce the understanding and help the child to master the new concepts.

Maths Alert given at various places point out the common mistakes and warn them against committing them themselves.

Lab Activities as per CBSE guidelines have been incorporated at the end of the book.

The new model of teaching methodologies, content and **Continuous and Comprehensive Evaluation (CCE)** introduced by CBSE has been religiously followed and adhered to in the revised series.

We are thankful to the management and the editorial team of S. Chand & Company Pvt. Ltd., New Delhi for help and support in publication of this book.

For more than 50 years, we have been setting trends in bringing unmatched content and pioneering Maths books for Indian Schools. It would not have been possible without the support of teachers and students.

Suggestions and feedback for continuous improvement of this newly introduced series would be most welcome from all the principals, teachers, students and parents.

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1

NUMERATION

VOCABULARY

- Place Value
- Face Value
- Expanded Form
- Ten Thousand
- Lakh
- Periods
- Predecessor
- Successor
- Estimation

LOOKING BACK

Writing and Reading Numbers

A **numeral** is a symbol that represents a number. 5 and V, are both numerals which name the number five.

Numerals for any number, howsoever large it may be, are written by using the **ten digits** 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 and using the **concept of place value**. By the concept of place value, we mean that the same digit has different values in different positions.

The face value of 7 in 723 is 7. The place value of 7 is 700.

The place value of 7 in the following numbers are as shown:

Number	7519	5713	6872	9657
Place value of 7	7000	700	70	7



Face value
7

Place value
700

This shows that as a digit moves from right to left in a number, its place value increases 10 times.

Four ways of showing numbers (Example : 8154)

Abacus	Place value chart	Expanded form	Compact form								
	<table border="1"> <tr> <td>Th</td> <td>H</td> <td>T</td> <td>O</td> </tr> <tr> <td>8</td> <td>1</td> <td>5</td> <td>4</td> </tr> </table>	Th	H	T	O	8	1	5	4	$8000 + 100 + 50 + 4$	8,154
Th	H	T	O								
8	1	5	4								



1 Name the place value of 5 in each of the following :

a 315

b 501

c 5108

d 2570



2 Write the following numbers in expanded form :

a $598 = 500 + 90 + 8$

b $304 =$

c $2030 =$

d $3457 =$

3 Write the compact numeral.

a $50 + 6$

b $700 + 50 + 8$

c $9000 + 800 + 60 + 1$

d $8000 + 70 + 2$

4 Read the following numbers aloud and then write them in numerals.

a Two thousand five hundred twelve

b Five thousand seventy

c Seven thousand seven



5 Write in words.

a

b

6 Write the greatest number of four digits.

7 Write the smallest number of four digits.

8 In each of the following, use each of the given digits only once to form the largest and the smallest numbers.

	Digits	Smallest number	Largest number
a	5, 3, 2, 6	<input type="text"/>	<input type="text"/>
b	3, 8, 7, 4	<input type="text"/>	<input type="text"/>

9 Write the following numbers in ascending order.

3619, 2013, 6354, 1598, 735

10 Write the following numbers in descending order.

6297, 1387, 4091, 5683, 8120

11 Fill in the correct symbol : > or < or = .

a $5,931 > 4,872$

b $2,980 < 3,700$

c $7,854 < 7,854$

d $1,011 < 1,013$

e $4,295 < 4,285$

f $8,721 < 8,720$

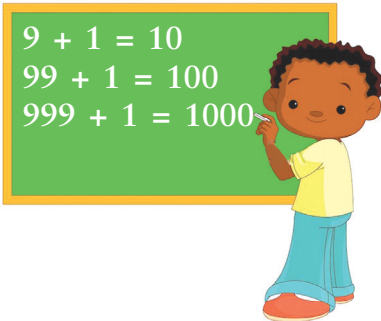


INTRODUCING 5-DIGIT AND 6-DIGIT NUMBERS

Till now you have learnt up to 4-digit numbers. We will now introduce you to 5 and 6-digit numbers.

Five-Digit Numbers

You know that :



Greatest 1-digit number + 1 = Smallest 2-digit number.

Greatest 2-digit number + 1 = Smallest 3-digit number.

Greatest 3-digit number + 1 = Smallest 4-digit number.

Following the above pattern, can you tell what number you will get if you add 1 to the greatest 4-digit number?

$$9999 + 1 = 10000$$

One more than 9999 is 10000 read as : **‘Ten Thousand’**.



10 thousands = 1 ten thousand → 10,000

The following picture will help you to understand the above.

10

TTh Th H T O

is the same as

1

TTh Th H T O



Learning Composite Mathematics-4



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