

## CHAPTER 01

# KNOWING OUR NUMBERS

## Revision of place value:

You already have learnt about Indian Place value system and its periods. In today's class, we shall recall the method of writing a digit in its expanded form and vice versa.

INDIAN PLACE VALUE SYSTEM								
CRORES		LAKHS		THOUSANDS		ONES		
TC	C	TL	L	T-Th	Th	H	T	O

Let us know recall the expanded form of a four digit number.

### Example 1:

Consider the number 5874.

TH	H	T	O
5	8	7	4

The digit 5 is in 1000's place and hence multiplied by 1000.

TH	H	T	O
5	8	7	4

  

$5 \times 1000$	$8 \times 100$	$7 \times 10$	$4 \times 1$
-----------------	----------------	---------------	--------------

The digit 8 is in 100's place and hence multiplied by 100.

The digit 7 is in 10's place and hence multiplied by 10.

The digit 4 is in 1's place and hence multiplied by 1.

Now the expanded form of this number is written as,

$$5874 = 5 \times 1000 + 8 \times 100 + 7 \times 10 + 4 \times 1.$$

**Example 2:**

Consider the number 39540.

The digit 3 is in 10000's place and hence multiplied by 10000.

The digit 9 is in 1000's place and hence multiplied by 100.

TTH	TH	H	T	O
3	9	5	4	0

  

3 x 10000	9 x 1000	5 x 100	4 x 10	0 x 1
-----------	----------	---------	--------	-------

The digit 5 is in 100's place and hence multiplied by 10.

The digit 4 is in 10's place and hence multiplied by 10.

The digit 0 is in 1's place and hence multiplied by 1.

Now the expanded form of this numbers is written as,

$$39540 = 3 \times 10000 + 9 \times 1000 + 5 \times 100 + 4 \times 10 + 0 \times 1.$$