

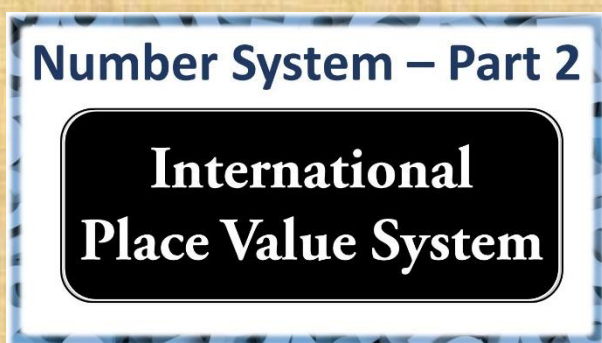
## CHAPTER 01

# KNOWING OUR NUMBERS

### International System of Numeration:

The numbers we use in India is not used everywhere around the world.

Other part of the world uses International Number System.



The International number system place value has the following periods and places.

ONES – PERIOD

THOUSANDS – PERIOD

MILLIONS – PERIOD

Millions			Thousands			Ones		
Hundred Million	Ten Million	Million	Hundred Thousands	Ten Thousands	Thousands	Hundred	Tens	Ones
HM	TM	M	HTh	TTh	Th	H	T	O
		1,00,000			One hundred thousand			
		10,00,000			One million			
		1,00,00,000			Ten million			
		10,00,00,000			One hundred-million			

You may note that each period has 3 places unlike the Indian place value system.

Indian	International
Ten Crores (TC) 10,00,00,000	Hundred millions 100,000,000
Crores (C) 1,00,00,000	Ten millions 10,000,000
Ten Lakhs (TL) 10,00,000	Millions 1,000,000
Lakhs (L) 1,00,000	Hundred Thousands 100,000
Ten Thousands (T-Th) 10,000	Ten Thousands 10,000
Thousands (TH) 1,000	Thousands 1,000
Hundreds (H) 100	Hundreds 100
Tens (T) 10	Tens 10
Ones (O) 1	Ones 1

When you compare the charts, you can identify the relation between the two systems such as,

$$1 \text{ Lakh} = 100 \text{ Thousand}$$

$$1 \text{ Million} = 10 \text{ Lakh}$$

$$10 \text{ Lakh} = 1 \text{ Million}$$

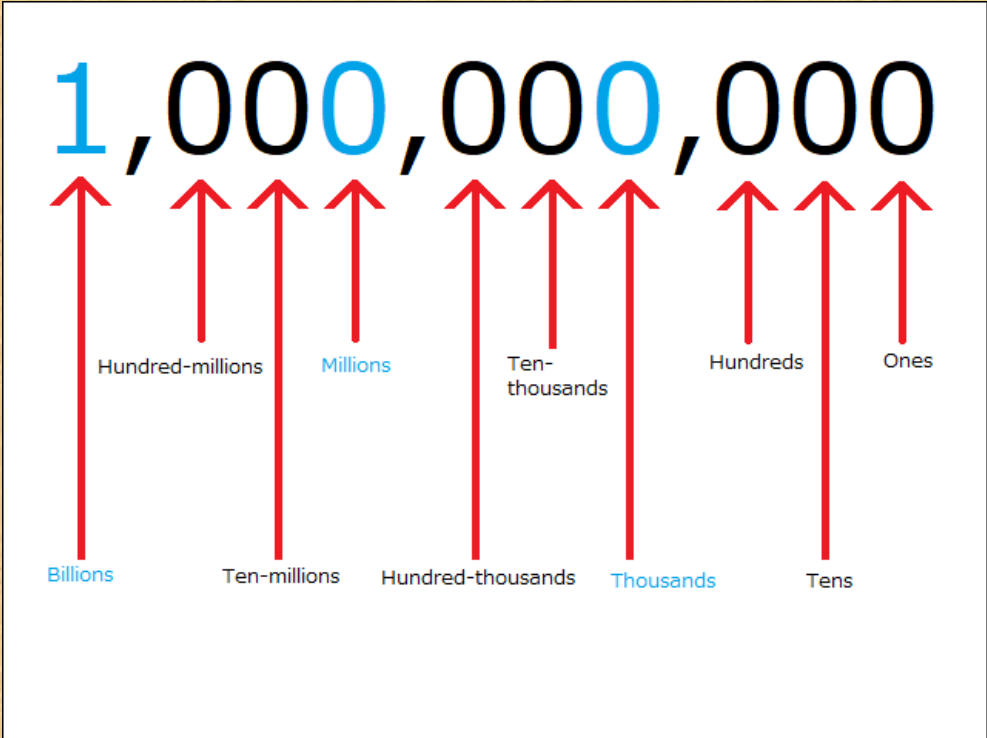
$$10 \text{ Millions} = 1 \text{ Crores}$$

$$10 \text{ Crores} = 100 \text{ Million}$$

100 Million = 1 Billion

### Use of commas and reading a number:

Similar to Indian system, commas are placed after every period to make it easily to read the numbers.



Consider the number 593071423.

We shall insert comma after every three places from the right.

Number	Hundred Millions	Ten Millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
593,071,423	5	9	3	0	7	1	4	2	3

Let us place these numbers and write their number names.

The number name will be,

Five hundred ninety three million seventy one thousand four hundred twenty three.

Let us consider another example 4935800.

Insert the commas and place the numbers in the chart as shown.

Number	Hundred Millions	Ten Millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
<b>593,071,423</b>	<b>5</b>	<b>9</b>	<b>3</b>	<b>0</b>	<b>7</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>3</b>
Five hundred ninety three million seventy one thousand four hundred twenty three									
<b>4,935,800</b>	<b>-</b>	<b>-</b>	<b>4</b>	<b>9</b>	<b>3</b>	<b>5</b>	<b>8</b>	<b>0</b>	<b>0</b>

The number name for this number will be,

Number	Hundred Millions	Ten Millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
<b>593,071,423</b>	<b>5</b>	<b>9</b>	<b>3</b>	<b>0</b>	<b>7</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>3</b>
Five hundred ninety three million seventy one thousand four hundred twenty three									
<b>4,935,800</b>	<b>-</b>	<b>-</b>	<b>4</b>	<b>9</b>	<b>3</b>	<b>5</b>	<b>8</b>	<b>0</b>	<b>0</b>
Four million nine hundred thirty five thousand eight hundred									