

## Chapter- 3

### NUMBERS IN INDIAN AND INTERNATIONAL SYSTEMS

#### Main Concepts and Result

#### Numerals and numeration

The method of representing a **number** in digits or figures is called numeral.

**Numeration** is known as the method of expressing a **number** in words.

#### Hindu-Arabic (Indian) System of numeration

Values of the places in the Indian system of numeration are Ones, Tens, Hundreds, Thousands, Ten thousands, Lakhs, Ten Lakhs, Crores and so on.

The following place value chart can be used to identify the digit in any place in the Indian system.

Periods	Crores		Lakhs		Thousands		Ones	
Places	Ones	Tens	Ones	Tens	Ones	Hundreds	Tens	Ones

#### Use of Commas

Commas added to numbers help us read and write large numbers easily.

As per Indian Numeration, Commas are used to mark thousands, lakhs and crores.

The first comma comes after hundreds place (three digits from the right) and marks thousands.

The second comma comes two digits later (five digits from the right). It comes after ten thousand place and marks lakh.

The third comma comes after another two-digit (seven digits from the right). It comes after ten lakh place and marks crore

**International system of numeration**

Values of the places in the International system of numeration are Ones, Tens, Hundreds, Thousands, Ten thousands, Hundred thousands, Millions, Ten millions and so on.

1 million = 1000 thousands,

1 billion = 1000 millions

Following place value chart can be used to identify the digit in any place in the International system.

Periods	Billions			Millions			Thousands			Ones		
Places	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones

**Use of Commas**

*Changing your Tomorrow*

As per International Numeration, Commas are used to mark thousands and millions.

It comes after every three digits from the right.

The first comma marks thousands and the next comma marks millions.

For example, the number 10,101,592 is read in the International System as ten million one hundred one thousand five hundred ninety-two.

In the Indian System, it is 1 crore one lakh one thousand five hundred ninety-two.

