

## Unit-1 :- NUMBERS UPTO 99,99,99,999.

### ▣ Place, Period and place Value

In our decimal number system , the value of a digit depends on its place , in the number .Each place has a value of 10 times the place to its right. A number in standard form is separated into group of three digits using commas. Each of these groups is called period.

- ▣ There are two systems of reading and writing numbers .
- ▣ The Indian system and International system of numeration.

#### 1.Indian system of numeration:-

In Indian system of numeration ,starting from the right ,the first period is ones, Consisting three place values (ones, tens, hundreds).The next period is thousands, consisting of two place values (thousands, ten thousands). The third period from the right is lakhs, consisting of two place value (lakhs and ten lakhs) and so on. This system of numeration is also known as Hindu Arabic System of numeration.

▣ In the Indian system ,the first comma comes after three digit from the right and the next comma comes after the next two digits and then after every two digits and so on.

Let us consider an ex.- 92357385 = 9,23,57,385.

4365754 = 43,65,754.

#### 2.International system of numeration :-

In the international system of numeration starting from right ,the first period is ones ,consisting of three place values (ones, tens and hundreds).The next period is thousands, consisting of three place values (one thousand, ten thousands and hundred thousands) and then millions and after that billions. Example :-

375852108 will be written as 375,852,108.

Similarly :-

39806254 = 39,806,254.

## UNIT :- 2 OPERATIONS ON LARGE NUMBERS

There are four basic

operations that we can perform on large numbers they are Addition, Subtraction, Multiplication and Division.

▣ We have to add or subtract large numbers in the same way as we added and subtracted 5-digit and 6- digit numbers.

Example :- Add 3,45,71,386; 4,39,03,424 and 5,30,26,572.

Solution:- 3,45,71,386

+ 4,39,03,424

+ 5,30,26,576

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13,15,01,386

Sum = 13,15,01,386.

▀ Multiply large numbers

Example :- Multiply 45,983 by 457.

Solution : 35983

× 475

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17091925 ← product.

The product of 35,983 and 475 is 1,70,91,925.