UNIT -1

NUMBERS UP TO 999999.

You know that

1 more than 9= 9+1= 10

1more than 99= 99+1=100

1more than 999= 999+1= 1000.and so on

Greatest 4-digit number = 9999.

Smallest 5-digit number= 10000.

Place value chart

The smallest place (ones) is on the extreme right.

Each place on the left has a value 10 times more than the value of the place on the right side.

The place value of a digit in a numeral is the product of the digit and its place in the numeral.

Example :- 235782 \rightarrow The place of digit 7 is hundreds

So the place value of 7 is $7 \times 100 = 700$.

PERIOD:- As the size of a number increases, we find it difficult to read the number. So, to read numerals without any difficulty, we group the places into periods.

Ex.- The six places are groupedinto three PERIODS. (Lakhs , Thousands and Ones)

Ex.- Divide 754823 into periods.

Solution:- Ones Period \rightarrow 823

Thousands Period \rightarrow 54

Lakhs Period \rightarrow 7

In order to separate the periods ,we leave a little space insert commas in between the period.

➡ There are two systems of reading and writing numbers . The Indian system and the International system of numeration.

The Indian place value chart

Observe carefully. See that :

 \star The smallest place (ones) is on the extreme right.

pprox Each place on the left has a value 10 times more than the value of the place on the right side.

 \star The place value of a digit in a numeral is the product of the digit and its place in the numeral.

Ex.- $345297 \rightarrow$ The place of digit 2 is hundreds. So the place value of 2 is $2 \times 100 = 200$ or 2 hundreds.

Ex. What is the period and place of 1 in 3,58,017?

Solution:-

Period= Ones. Place = Tens

Expanded Form :- Expanded form of a numeral is the sum of the place values of each digit of the numeral.

Ex.- Expanded form :- 300+60+5= 365 ← Standard form

Ex.-7,000+500+30+1 =7531 ← Standard form.

UNIT-2

ADDITION AND SUBTRACTION

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

Addition:-

The numbers which we add are called Addends.

Ex.- 2+3=5

2 and 3 are addends

Sum = 5.

Properties of addition

- When we change the order of the addends ,the sum remains the same. Ex- 76+45 = 45+76 = 121.
- 2. The sum remains the same ,even after changing the order of the addends.
- 3. When zero is added to a number or a number is added to zero, the sum is the number itself. Ex- 0+50 = 50 + 0 = 50.
 - Properties of subtraction
 - 1. When we subtract zero from a number , we get the number itself. Ex. 7 - 0 = 7. 5 - 0 = 5.