

L.B.N.P.S.

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Subject :- Maths

Class :- V

Chapter :- 1 (Number)

Introduction :- In earlier class, we have learnt to read and write the counting numbers up to ten lakh places. Now, In this chapter we will learn to read and write the numerals having more than 7 digits in the Indian as well as International system of numeration.

We know that the largest 8-digit number is 99999999. Putting its digits in the Indian place value chart. We have

C	T-L	L	T-Th	Th	H	T	O
9	9	9	9	9	9	9	9

We read it as :- Nine crore ninety nine lakh ninety nine thousand nine hundred ninety nine.

Thus, On adding 1 to 99999999, we get
 $99999999 + 1 = 100000000$ (ten-crores)

So,

We may extend the Indian place-value chart to 9 place.

Indian Place Value Chart

In Indian place value chart the periods from right to left are: Ones, Thousands, Lakhs, Crores.

Periods →	Crores		Lakhs		Thousands		Ones		
Places →	Ten Crores 100000000	Crores 10000000	Ten-Lakhs 1000000	Lakhs 100000	Ten-Thousands 10000	Thousands 1000	Hundreds 100	Tens 10	Ones 1
	T-C	C	T-L	L	T-Th	Th	H	T	O

In a given numeral, starting from right, the first three places make the ones period, the next two places make the thousands period, the next two places make the lakhs period and the next two places make the crores period.

International Place Value Chart → In the most of the countries the place value chart is different from our country. It is called the International place value chart. It is shown below :-

Periods →	Billions			Millions			Thousands			Ones		
Places →	Hundred Billions 100000000000	Ten Billions 10000000000	Billions 1000000000	Hundred Millions 100000000	Ten Millions 10000000	Millions 1000000	Hundred Thousands 100000	Ten Thousands 10000	Thousands 1000	Hundreds 100	Tens 10	Ones 1
	HB	TB	B	HM	TM	M	H-Th	T-Th	Th	H	T	O

In a given numeral, starting from right to the left, first three places make Ones period, next three places make Thousands period and the next three places make the Millions period and the next three make the Billions Period.

Successor and Predecessor

The number that is just after the given number is called the successor of the number.

Note :- Add one to the number to get its successor.

The number that is just before the given number is called the predecessor of the number.

Note :- Subtract one to the number to get its predecessor.

Exercise Time

1. Write the number name for each of the following using the Indian system of numeration :-

a. 43567

b. 942783

c. 5936748

d. 73674810

e. 567443059

f. 380054609

2. Write the following numbers in figures :-

a. Fifty-six lakh forty three thousand fifty nine.

b. Seven crore twenty nine lakh sixty seven thousand four hundred fifteen.

c. Ten crore eight lakh one hundred seventy three.

d. Ninety eight crore eighty one lakh sixty nine thousand four hundred seventy three.

3. Using Indian place value system, write the place value of each of the digits in the numeral 73,85,62,457.

4. Write the following numbers in an expanded form :

a. 5,40,374

b. 84,56,876

c. 5,48,39,059

d. 14,35,67,408

e. 73,55,69,988

f. 90,70,80,357

5. Write the following numbers in short form :-

a. $40,00,00,000 + 7,00,00,000 + 50,000 + 8000 + 500 + 3$

b. $30,00,00,000 + 6,00,00,000 + 70,00 + 000 + 30,000 + 900 + 60 + 7$

c. $5,00,00,000 + 40,00,000 + 80,000 + 6000 + 700 + 900 + 70 +$

6. Write the number names for each of the following using the international system of numeration :-

a. 45678449

b. 3384079

c. 483684057

d. 7253640585

e. 501409307

f. 7899607389

7. Write the numerals for each of the following using International place-value chart :-

a. Eight million thirty nine thousand sixty seven.

b. One hundred twenty three million four hundred thousand ninety seven.

c. Seventy nine million eighty eight thousand nine hundred forty three.

8. Write the Answers of the following :-

a. What comes just after 3567428 ?

b. What comes just before 8900000 ?

c. What comes just after 86743999 ?

d. What comes just before 10000000 ?

9. Write the following numerals in the words in both number system ?

a. 56473808

b. 3748357

c. 230830007

Example.1. Arrange the digits of each of the following numerals in the Indian place-value chart and write it by separating the periods :-

- (a) 5425367 (b) 37285479 (c) 423674059

Solution :- Starting from the digit of right, we make entries of the digits of each numeral in the place value chart as shown below.

	TC	C	TL	L	T-Th	Th	H	T	O	using Commas
(a)			5	4	2	5	3	6	7	54,25,367
(b)		3	7	2	8	5	4	7	9	3,72,85,479
(c)	4	2	3	6	7	4	0	5	9	42,36,74,059

Example.2. Write the following numerals with proper commas, using International system of numeration :

- (a) 56472305 (b) 423567180 (c) 305673072

Solution:- Arranging numerals in an international place-value chart :-

	HM	TM	M	H-Th	T-Th	Th	H	T	O	Notation
a.		5	6	4	7	2	3	0	5	56,472,305
b.	4	2	3	5	6	7	1	8	0	423,567,180
c.	3	0	5	6	7	3	0	7	2	305,673,072

Example.3. Write the number names of the following :-

- (a) 43,156,743 (b) 403,456,485

Solution:- Numeral Number name

a. 43,156,743 - Forty three million one hundred fifty six thousand seven hundred forty three.

b. 403,456,485 - Four hundred three million four hundred fifty six thousand four hundred eighty five.

10. Fill in the blanks :-

a. 1 million = _____ lakh

b. 1 crore = _____ lakh

c. 1 crore = _____ million

d. 1 billion = _____ million .