

CLASS : V

SUBJECT : MATHEMATICS

SESSION : 7

CHAPTER NUMBER: 2

CHAPTER NAME : Indian Number System

**SUBTOPIC : Successor and Predecessor, comparison of numbers,
ascending and descending order**

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE :

- ❖ Students will be able to recapitulate their previous knowledge on Comparing and ordering .
- ❖ This session will make their concepts more clear on the understanding of ascending and descending order of larger numbers.
- ❖ They will be able to work out on the concepts of successor and predecessor of larger numbers.

Successor and Predecessor

Successor- (After number)

The number that comes just after a given number is called its **successor**.

Trick- On adding 1, to the given number, we get its successor.

Ex- 1: Write the successor of 2,87,65,,837

$$2,87,65,,837 + 1 = 2,87,65,838$$

So, the successor of 2,87,65,,837 is **2,87,65,838**

Ex-2: Successor of 42,65,34,129 is 42,65,34,130.

Ans- $42,65,34,129 + 1 = 42,65,34,130$

Predecessor- (Before number)

The number that comes just before a given number is called its **Predecessor**.

Trick- On subtracting 1 from the given number, we get its predecessor.

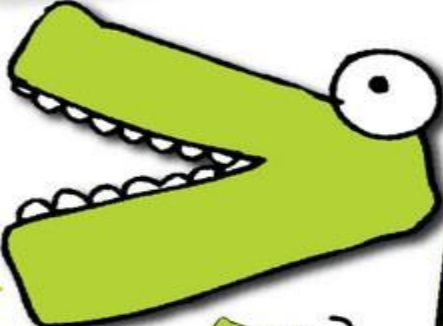
EX-3: Write the successor of 57,86,546.

Ans- $57,86,546 - 1 = 57,86,545$

So the predecessor is **57,86,545**

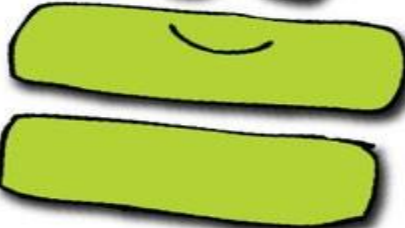
COMPARISON OF NUMBERS

Greater Than



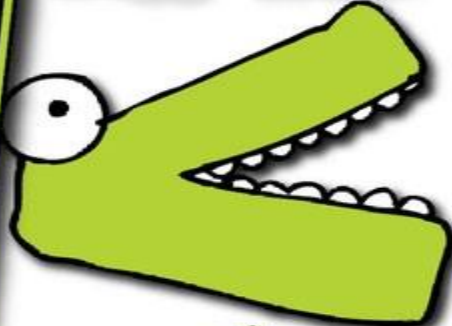
$8 > 3$
8 is greater than 3

Equal To



$5 = 5$
5 is equal to 5

Less Than



$2 < 7$
2 is less than 7

COMPARISON OF NUMBERS

Rule – 1

When the number of digits in two numbers are different, the number with more number of digits is greater.

Compare the numbers 2,13,47,807 and 30,57,081

2,13,47,807	8-digit number
30,57,081	7-digit number

So, $2,13,47,807 > 30,57,081$ or $30,57,081 < 2,13,47,807$

8-digit number $>$ 7-digit number

Compare the numbers 36,18,88,346 and 36,18,88,613

Rule – 2

When the number of digits in two numbers are the same, then start comparing the digits from the extreme left. Stop when you see different digits. At this stage, the number with greater digit is greater.

Step-1 : Compare the digits from the left to right.

TC	C	TL	L	TTh	Th	H	T	O
3	6	1	8	8	8	3	4	6
3	6	1	8	8	8	6	1	3

$$3 < 6$$

$$36,18,88,346 < 36, 18,88,613$$

or

$$36, 18,88,613 > 36,18,88,346$$

Ascending and Descending order

When numbers are arranged in **increasing order** (smallest to largest) then numbers are said to be in **ascending order**.

When numbers are arranged in **decreasing order** (largest to smallest) then numbers are said to be in **descending order**.

Ascending and Descending order

1- Arrange these numbers in ascending order:

5,67,32,807

34,72,586

8,59,23,691

34,72,359

Hint- Arrange the numbers according to place value chart

	C	TL	L	TTh	Th	H	T	O
a)	5	6	7	3	2	8	0	7
b)		3	4	7	2	5	8	6
c)	8	5	9	2	3	6	9	1
d)		3	4	7	2	3	5	9

Here largest number is - 8,59,23,691

Smallest number is – 34,72,359

So, 34,72,359 < 34,72,586 < 5,67,32,807 < 8,59,23,691

The ascending order is :

34,72,359 ; 34,72,586 ; 5,67,32,807; 8,59,23,691

Ascending and Descending order

1- Arrange these numbers in descending order:

53,74,264

5,62,07,579

53,74,812

5,67,35,948

Hint- Arrange the numbers according to place value chart

	C	TL	L	TTh	Th	H	T	O
a)		5	3	7	4	2	6	4
b)	5	6	2	0	7	5	7	9
c)		5	3	7	4	8	1	2
d)	5	6	7	3	5	9	4	8

Here largest number is-

5,67,35,948

Smallest number is –

53,74,264

So,

5,67,35,948

>

5,62,07,579

>

53,74,812

>

53,74,264

The descending order is :

5,67,35,948 ; 5,62,07,579 ; 53,74,812 ; 53,74,264

HOME WORK-

Complete exercise 2 B

Q. No 1, 2, 3 and 4 in the notebook

LEARNING OUTCOME:

Students are able

- ❖ to work independently on the comparing and ordering
- ❖ Conceptual understanding of ascending and descending order will has made the children more confident.
- ❖ to work out on the concepts of successor and predecessor of larger numbers.

THANKING YOU
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