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

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

$\qquad$ 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

Ex-4: Predecessor of 58,64,000 is ___58,63,999___.
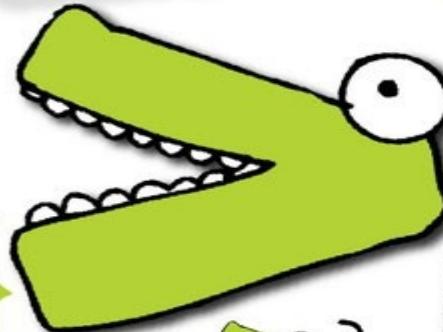
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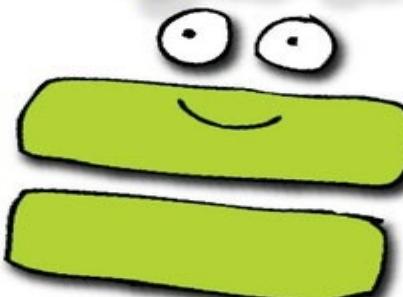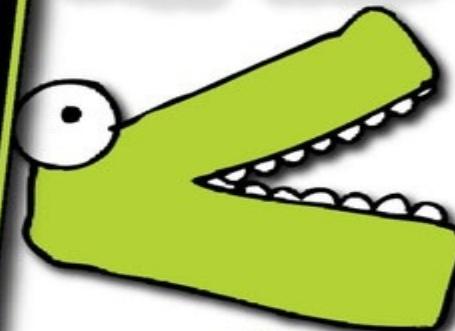
COMPARISON OF NUMBERS

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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

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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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