[NUMBERS] MATHEMATICS | CLASS -III

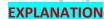
Chapter- 2

NUMBERS

STUDY NOTES

- * Revision, Four Digit Numbers
- * Reading 4-digit numbers
- * Successor and Predecessor
- * Numbers using Abacus
- * Place Value, Face Value
- * Expanded Notation, Expanded Form and Compact Form
- * Comparison of Numbers
- * Arranging Numbers
- * Formi<mark>ng Numb</mark>ers with the given Digits
- * Even and Odd Numbers
- * Numbers beyond 9999, Write in figures, Write in words

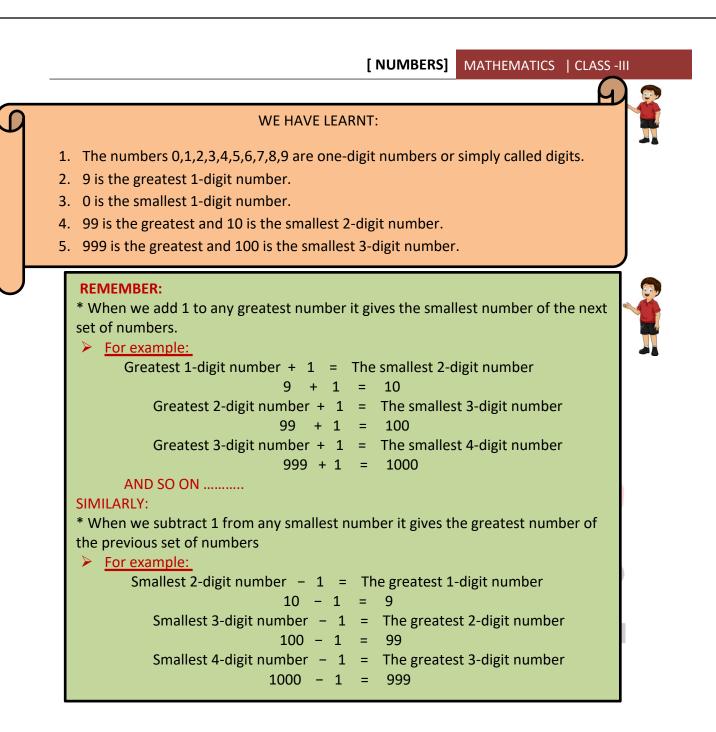
1. Revision, Four Digit Numbers



Changing your Tomorrow

Let's recall what we have already learnt....

Did you remember??????

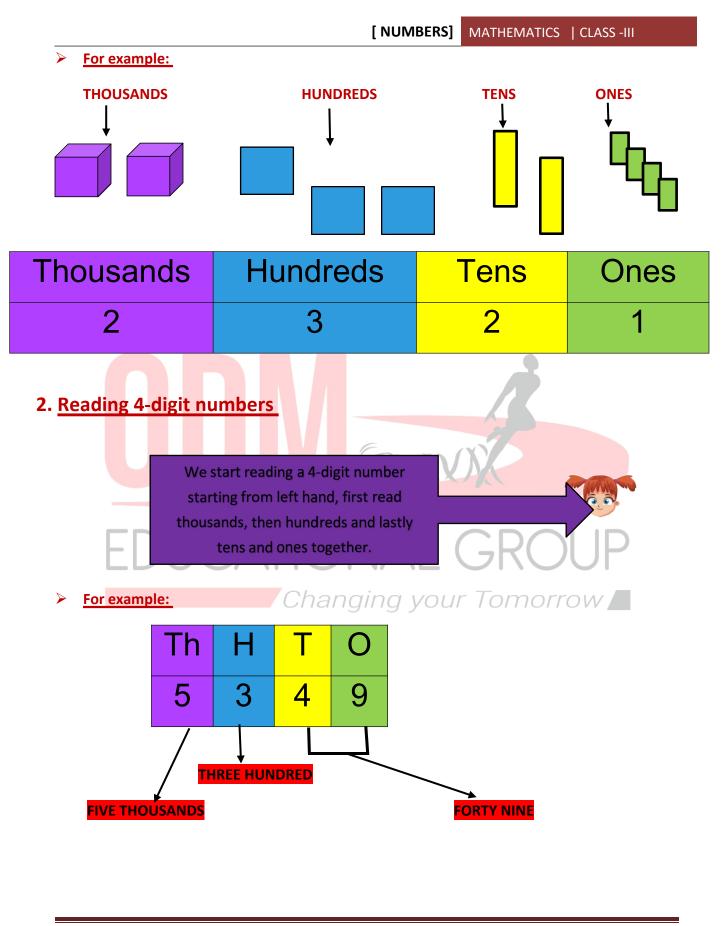


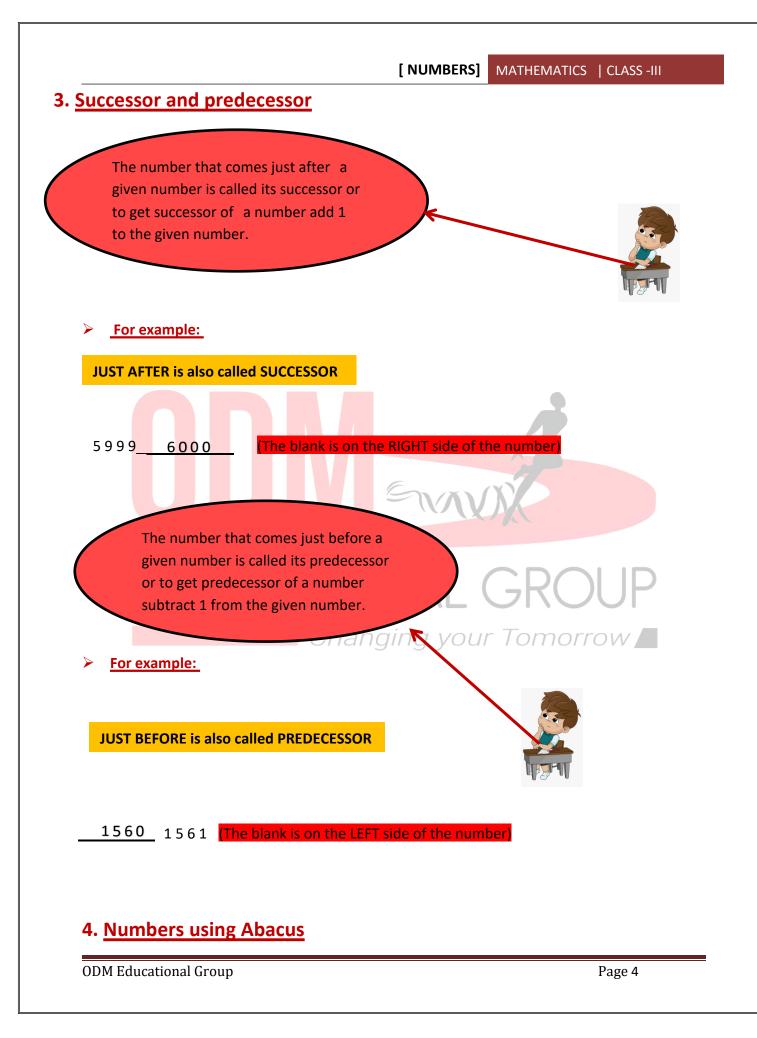


In 4-digit numbers we have another place to the right of HUNDRED place called THOUSAND.

We can form numbers from 1000 to 9999 by using thousand with cubes, hundred with sheets, tens with stripes, ones with slips.

To write 4-digit numbers we need four places. Starting from the left these are thousands place (TH) , hundreds place (H) , tens (T) and Ones place (O)



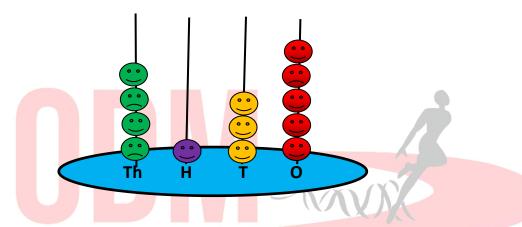


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* An abacus is a manual aid to calculate the consisting beads or disks or strings within a usually wooden frame. The abacus itself does not calculate, it's simply a device for helping a human being to calculate by remembering what has been counted.

For example:

In 4135, there is 5 in the ones place. So, we put 5 beads in the ones column. 4135 has 3 in the tens place, so we put 3 beads in the tens column. The digit in the hundred place is 1. So, the hundreds column has 1 bead. There are 4 thousand in 4635. So, we put 4 beads in the thousands column.



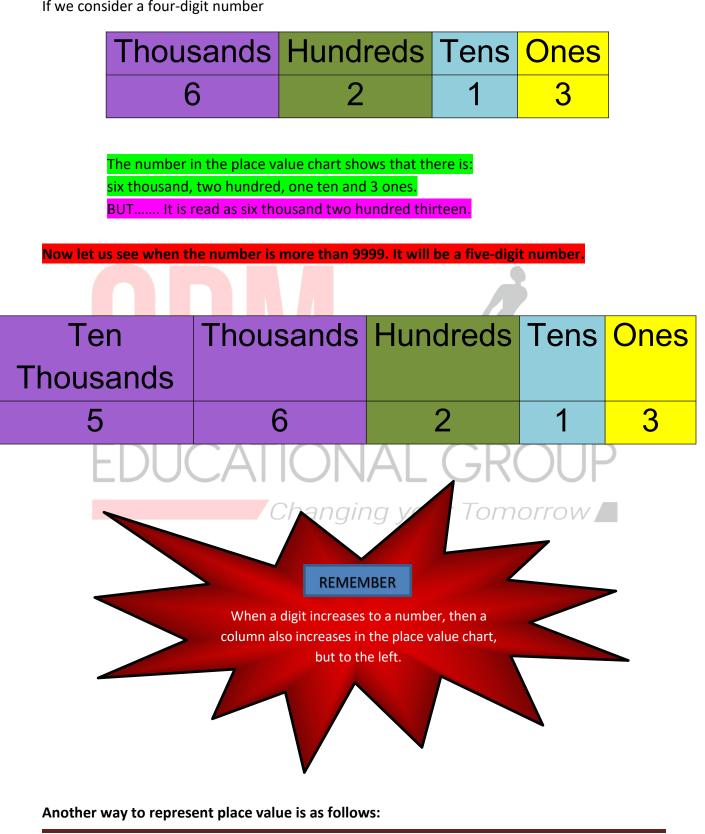
5. Place Value, Face Value

A 3-digit number begins at the ones period i.e. hundreds place A 4-digit number begins at the thousands period i.e. thousands place. To represent a 4-digit number in a place value chart 2 periods are required. Ones period consists three places--hundreds, tens, ones and one of the thousands periods which consists ten thousands and thousands. Here we consider only thousands place to represent a 4-digit number.

The 4-digit number 6213 can be represented in the place value chart as follows:

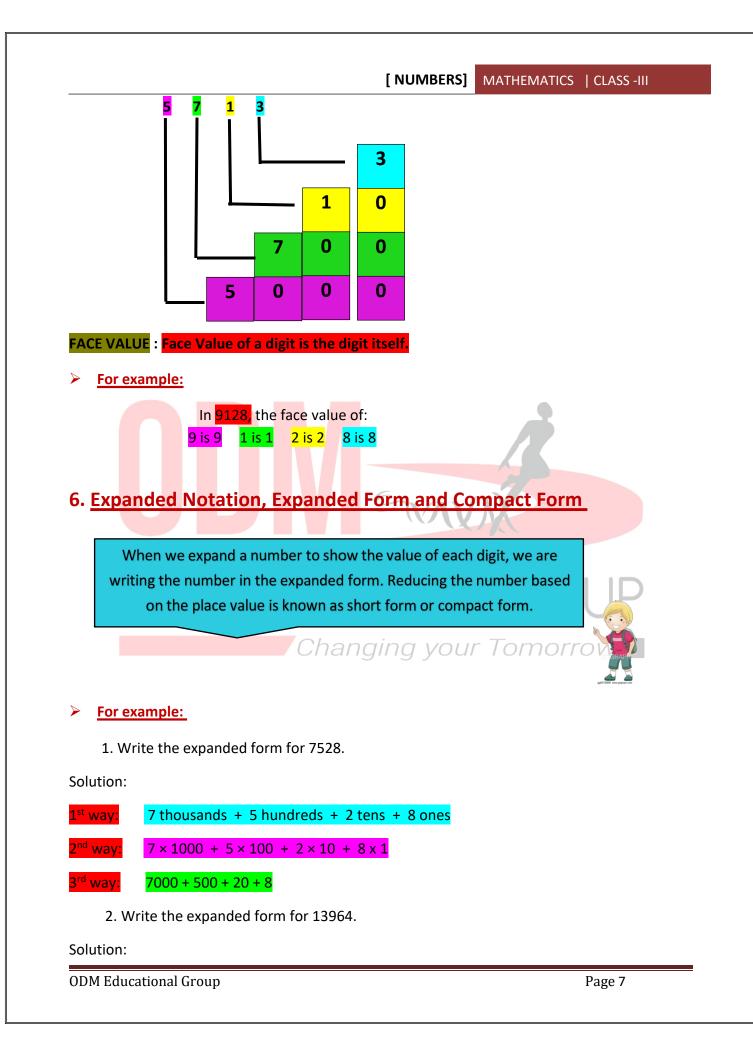
For example:

If we consider a four-digit number



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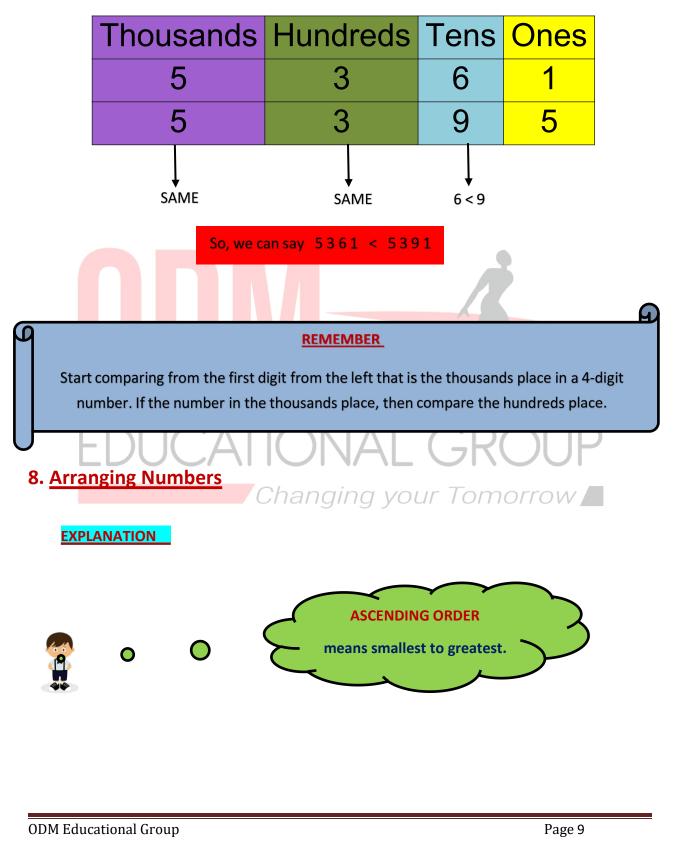
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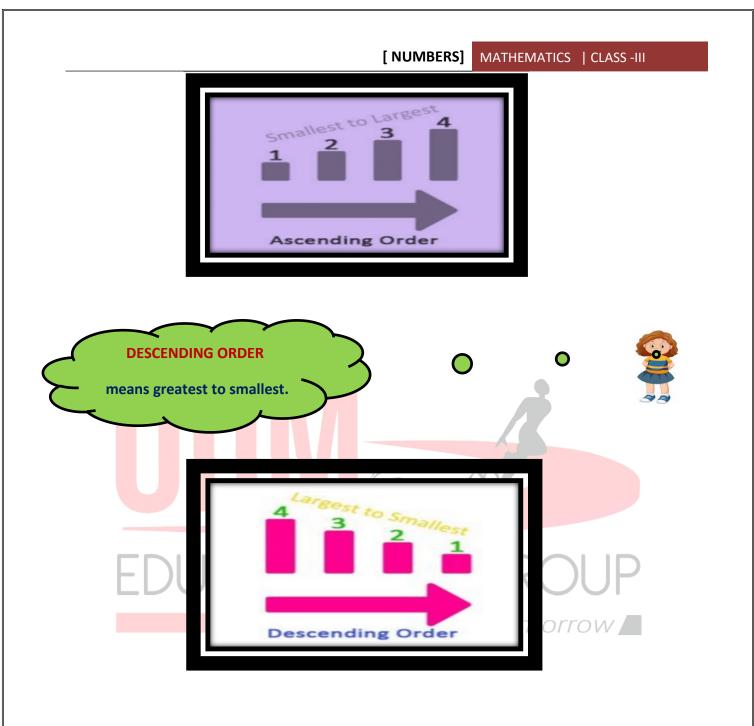


way:	[NUMBERS] MATHEMATICS CLASS -III 1 ten thousand + 3 thousands + 9 hundreds + 6 tens + 4 ones	
^l way:	$1 \times 10000 + 3 \times 1000 + 9 \times 100 + 6 \times 10 + 4 \times 1$	
way:	10000 + 3000 + 900 + 60 + 4	
	rite the compact (short) form for the given expanded forms.	
lution:		
	ed Form	
	ousands + 6 hundreds + 5 tens + 3 ones 2 6 5 3	
	000 + 4 x 10 + 9 7 0 4 9	
ii) 900(0 + 70 9 0 7 0	
Com	parison of Numbers	
EXPLA	NATION	
' >' s	symbol implies greater than '=' symbol when both sides are same	
F	-DUCATIONAL GROUP	
	'<' symbol implies smaller than	
<u>For e</u>	example:	
52	54 3245	
	3404 3404	
302	22 < 3635	
M Edu	icational Group Page 8	

Let us compare two 4-digit numbers:

5361 and 5395





> For example:

* 5146, 4635, 6245, 1537, 9541

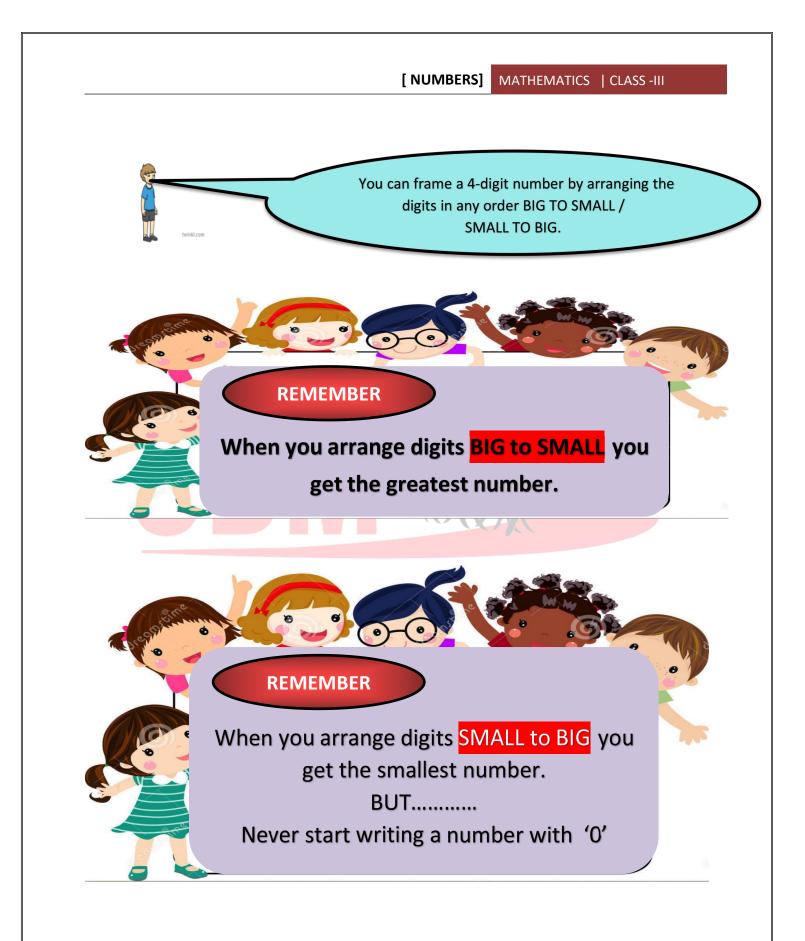
→ 1537, 4635, 5146, 6245, 9541 (In ascending order)

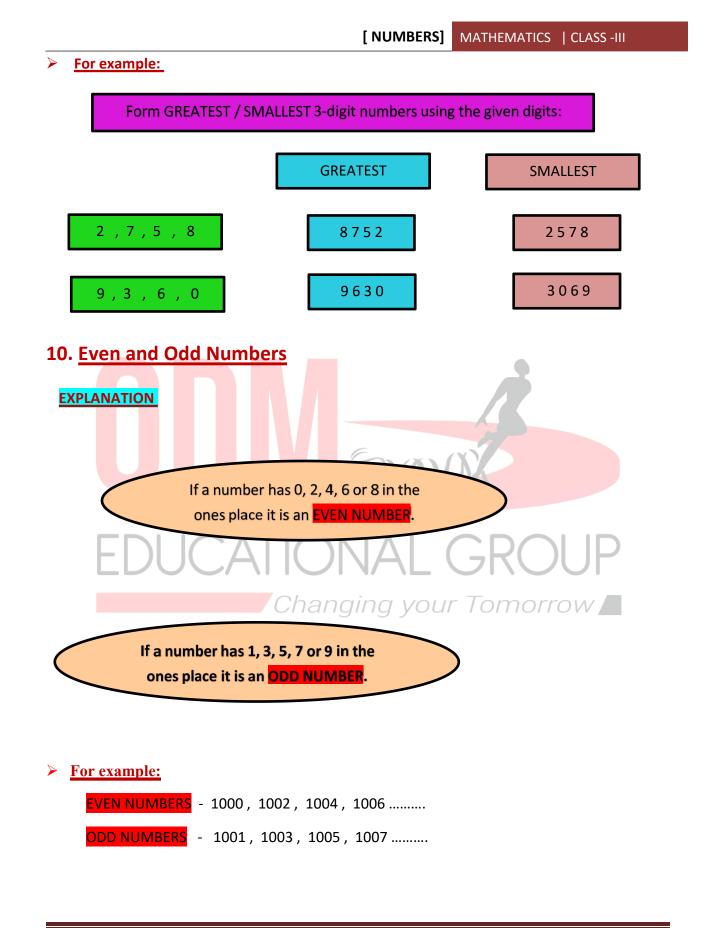
* 3598,7920,8126,4312,6420

→ 8126 , 7920 , 6420 , 4312 , 3598 (In descending order)

9. Forming Numbers with the given Digits

OD**EXPLANATION** roup





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SOME MORE FACTS ABOUT EVEN AND ODD NUMBERS

- 1. The smallest odd number is 1.
- 2. The smallest 4-digit odd number is 1001.
- 3. The greatest 4-digit odd number is 9999.
- 4. The smallest even number is 2.
- 5. The smallest 4-digit even number is 1000.
- 6. The greatest 4-digit even number is 9998.
- 7. '0' when it is in ones place of any number it makes that number EVEN. But alone '0' is not a number as it does not have any value when written alone.

11. Numbers beyond 9999, Write in figures, Write in words

