

SESSION: 7 CLASS: 3

SUBJECT: MATHEMATICS

CHAPTER NUMBER: 2

CHAPTER NAME: NUMBERS

SUBTOPIC: EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM

CHANGING YOUR TOMORROW

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LEARNING OBJECTIVE:



They will be able to:

- * Identify the digit in ones, tens, hundred, thousand and ten thousand place.
- * Write a 5-digit number in expanded notation.
- * Expand a 5-digit number according to the place value of each digit.
- * Construct a number when digits of different places are said.





Expanded Form

Children you have already learnt how to write a 5-digit number in a place value chart in previous classes.

Example: take the number 13526

TTh	Th	Н	Т	0
1	3	5	2	6

So, it is thirteen thousand five hundred twenty six.

EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM



let us now compare two, 5-digit numbers

1st number − 2 3 7 9 8

2nd number − 8 7 9 3 2

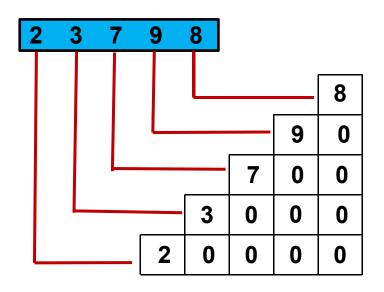
let us see the place value of both the numbers →

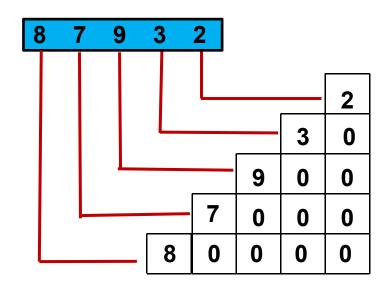












EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM



The digits have different Place Values in the two different numbers because they are in different places.

EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM



THE DIGITS ARE:

NOW LET US TAKE FEW DIGITS

LET US MAKE THREE 5-DIGITS NUMBERS

TTh	Th	Н	T	0
1	3	5	8	9
5	9	8	1	3
9	8	1	3	5



EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM



EXPANDED FORM

From this we can say that a number when expressed as a sum of place values of different digits it is said to be in expanded form.

EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM



1st Number

2nd Number

3rd Number

EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM



COMPACT FORM

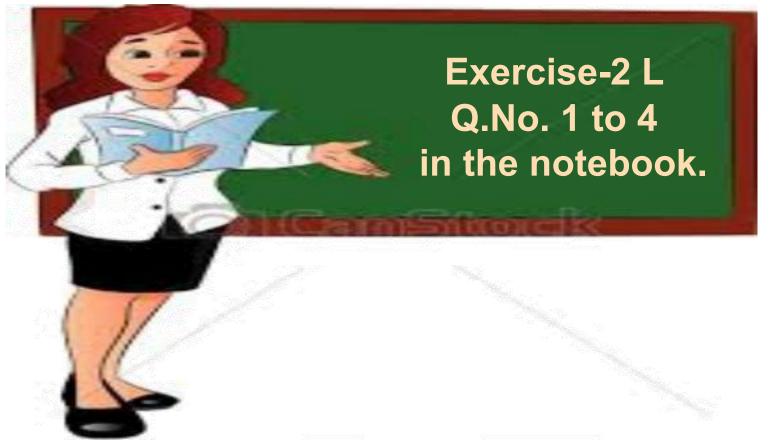
When we write a number using digits seeing the expanded form is called short form or Compact form. It is also called standard form of a number.

EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM



Let us see examples:





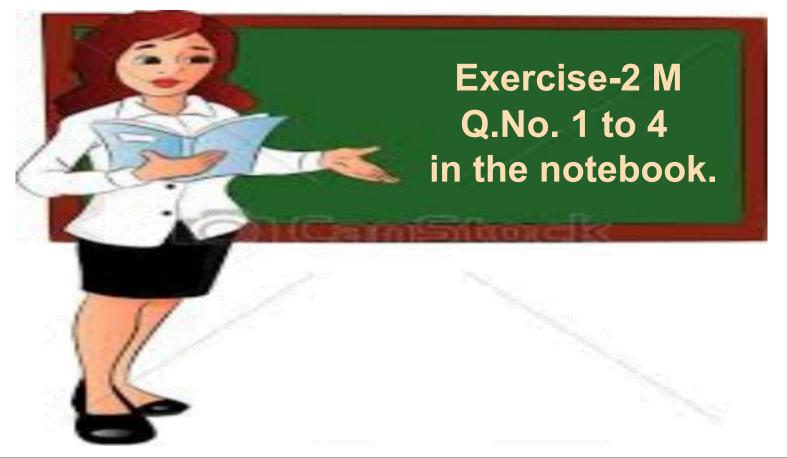


EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM

Write each number in expanded notation.





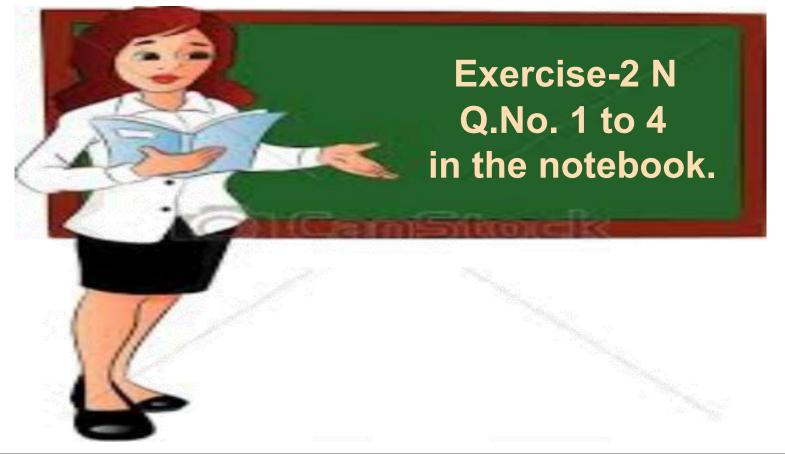


EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM



Write the expanded form of each of the following:





EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM



Express in compact form

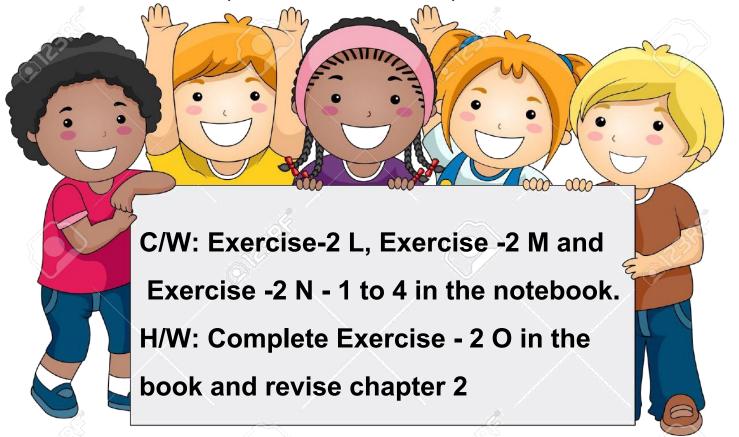












LEARNING OUTCOME:



Children are confident to find different digits of a 4-digit number in different places. Also can write a 4-digit number in expanded notation, expanded form with correct place values and compact form.

