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SESSION : 7
CLASS : 3
SUBJECT : MATHEMATICS
CHAPTER NUMBER: 2
CHAPTER NAME :NUMBERS
SUBTOPIC : EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM

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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.

NUMBERS

EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM

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	H	T	O
1	3	5	2	6

So, it is thirteen thousand five hundred twenty six.

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EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM

let us now compare two, 5-digit numbers
1st number – 2 3 7 9 8
2nd number – 8 5 9 7 2
let us see the place value of both the numbers →

COMPARE

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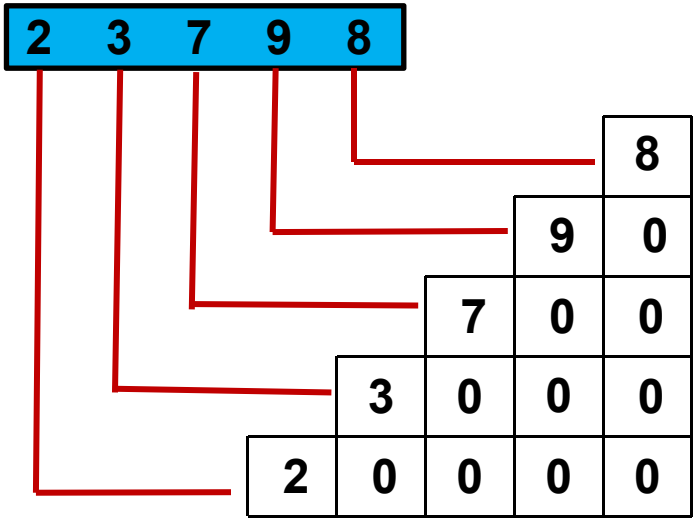
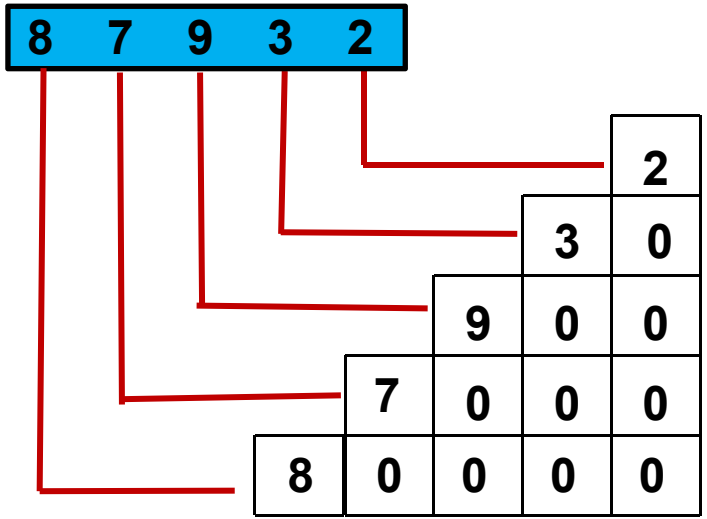
NUMBERS

EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM





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

NUMBERS

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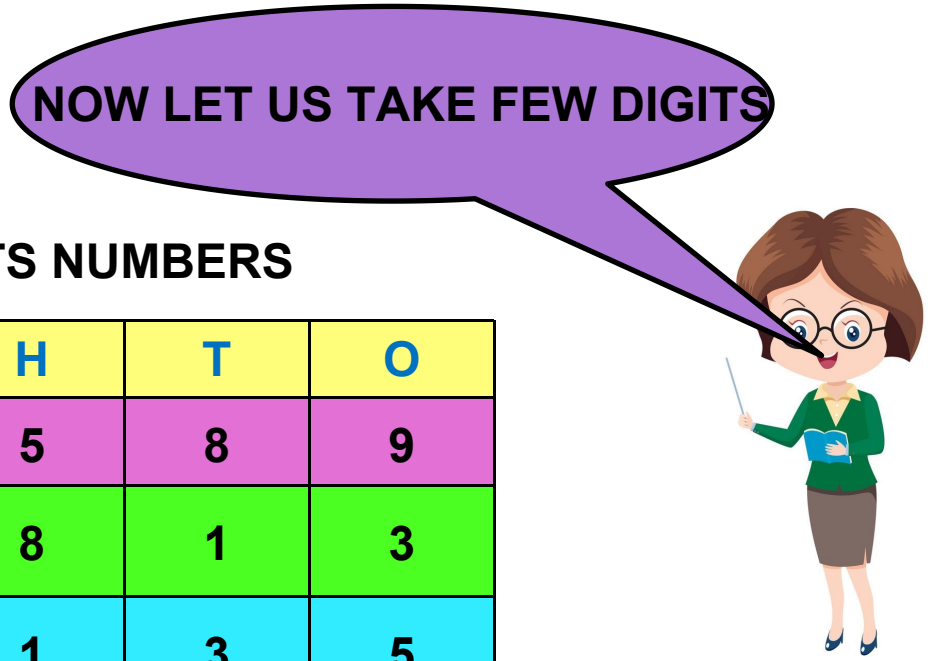
THE DIGITS ARE:

3, 5, 1, 8, 9



LET US MAKE THREE 5-DIGITS NUMBERS

TTh	Th	H	T	O
1	3	5	8	9
5	9	8	1	3
9	8	1	3	5

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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 .

NUMBERS

EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM

1st Number

13589 = 10000 + 3000 + 500 + 80 + 9

2nd Number

59813 = 50000 + 9000 + 800 + 10 + 3

3rd Number

98135 = 90000 + 8000 + 100 + 30 + 5

NUMBERS

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.

NUMBERS

EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM

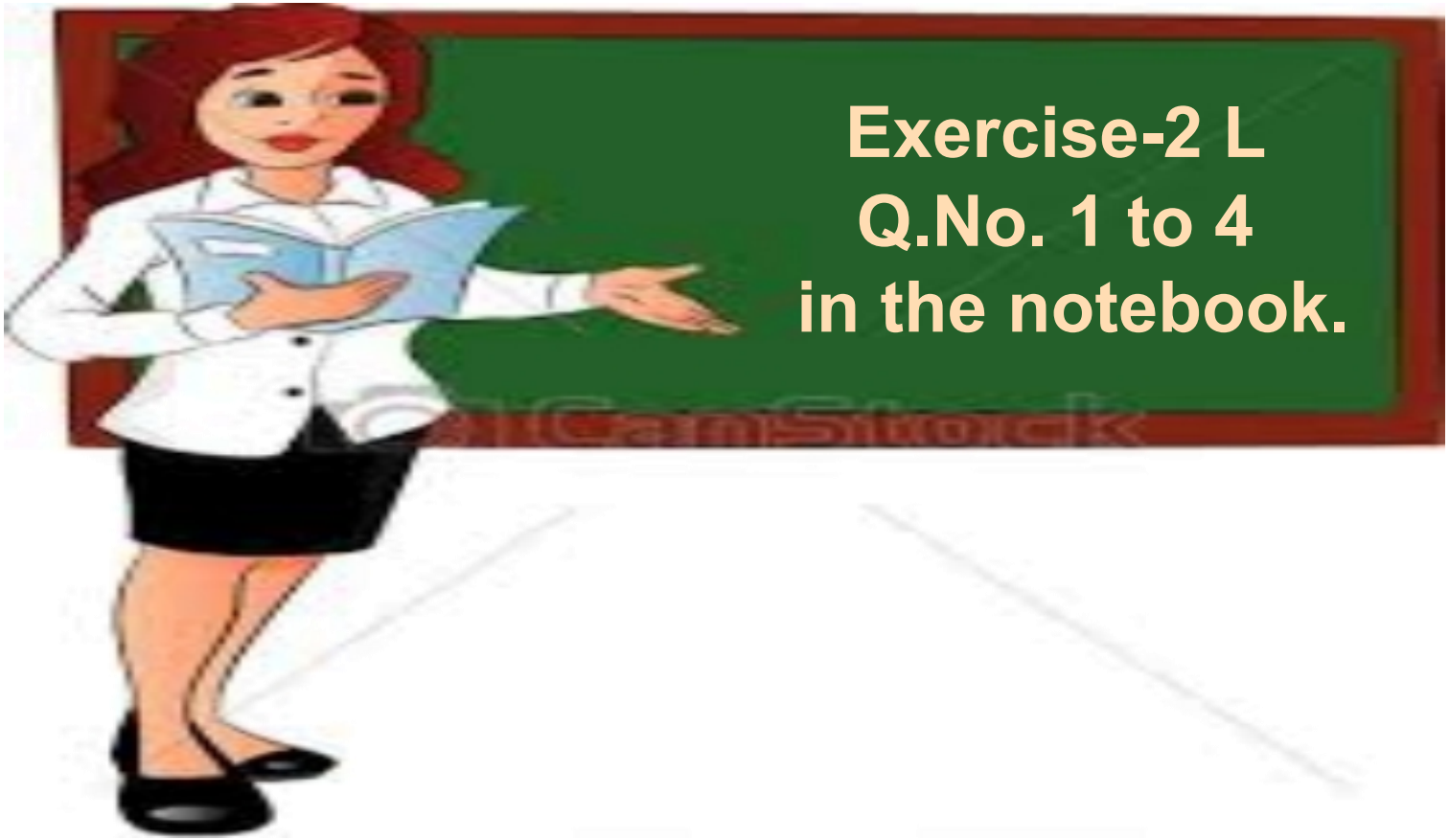
Let us see examples:

70000 + 3000 + 900 + 40 + 2 =	73942

30000 + 8000 + 200 + 60 + 4 =	38264

NUMBERS

EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM



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EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM

Write each number in expanded notation.

1) 17814 = 1 ten thousands 7 thousands

8 hundreds 1 tens 4 ones

2) 24836 = 2 ten thousands 4 thousands

8 hundreds 3 tens 6 ones

NUMBERS

EXPANDED NOTATION, EXPANDED FORM, COMPACT FORM

3) 37942 = 3 ten thousands 7 thousands

9 hundreds 4 tens 2 ones

4) 72043 = 7 ten thousands 2 thousands

0 hundreds 4 tens 3 ones

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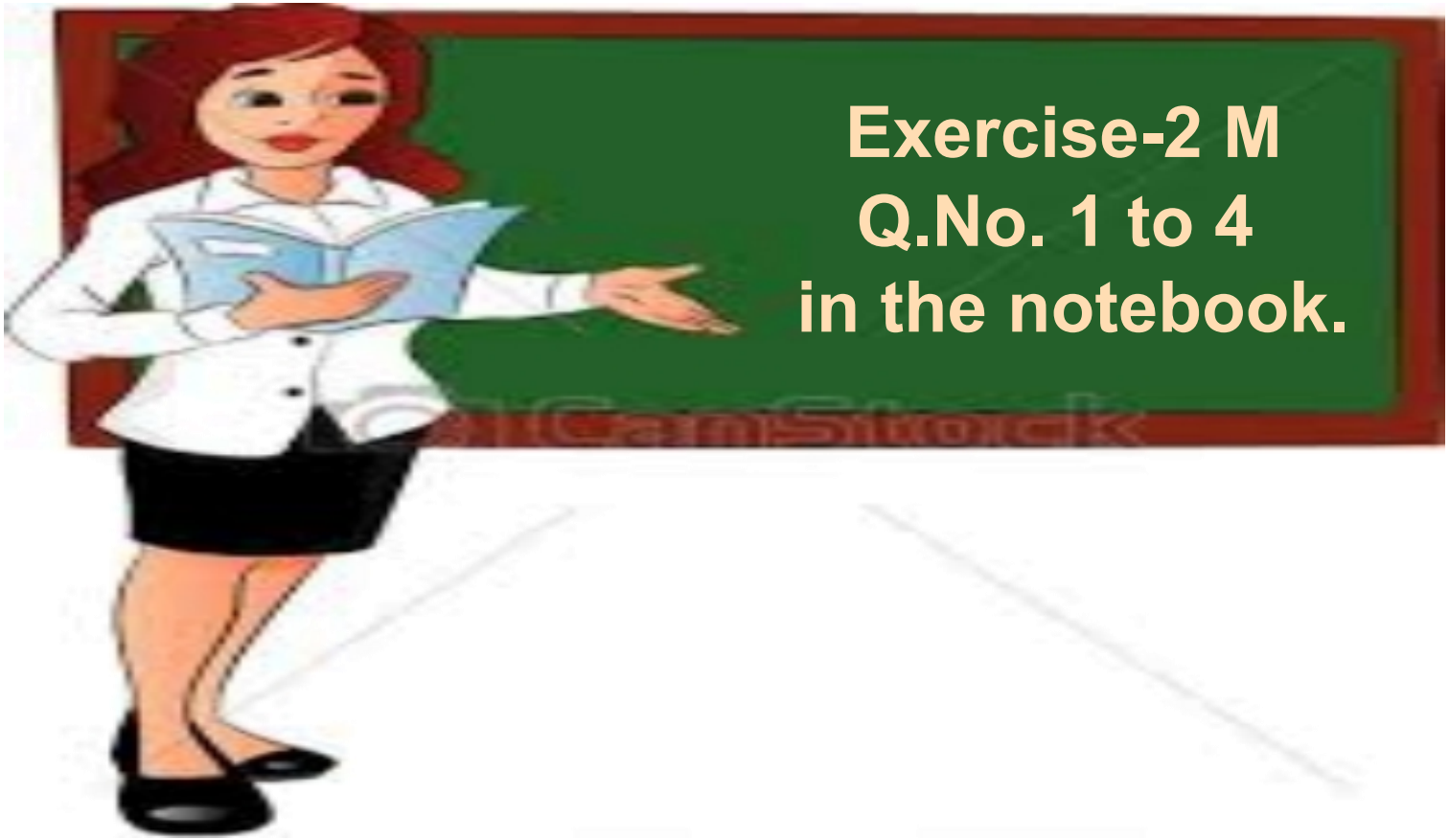

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Write the expanded form of each of the following :

1. 58924 = 50000 + 8000 + 900 + 20 + 4
2. 89075 = 80000 + 9000 + 0 + 70 + 5
3. 71007 = 70000 + 1000 + 0 + 0 + 7
4. 95570 = 90000 + 5000 + 500 + 70 + 0

NUMBERS

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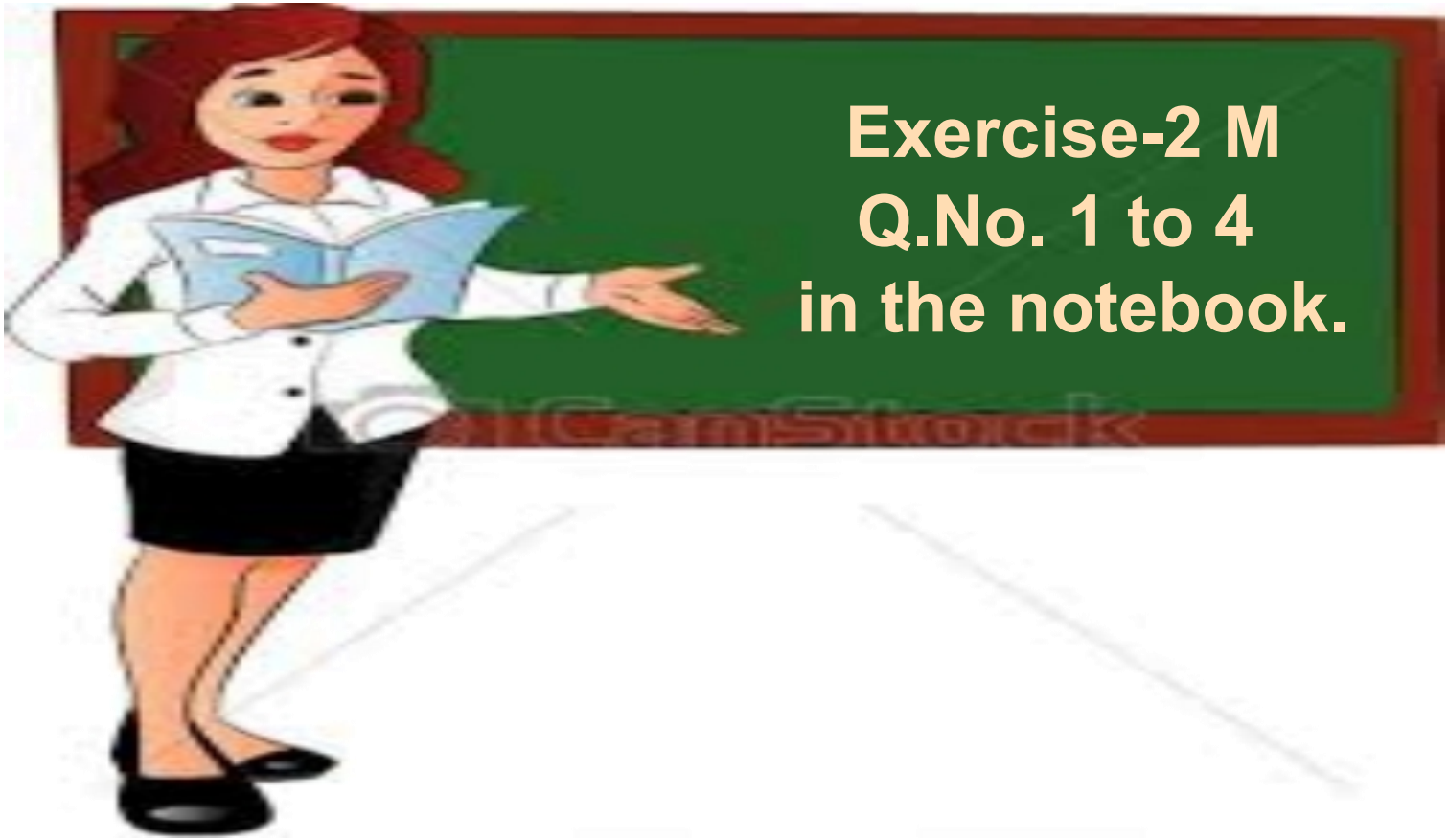

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Express in compact form

1. 10000 + 7000 + 500 + 0 + 4 = 17504
2. 40000 + 0 + 700 + 80 + 6 = 40786
3. 60000 + 1000 + 100 + 10 + 1 = 61111
4. 10000 + 4000 + 0 + 0 + 4 = 14004

NUMBERS

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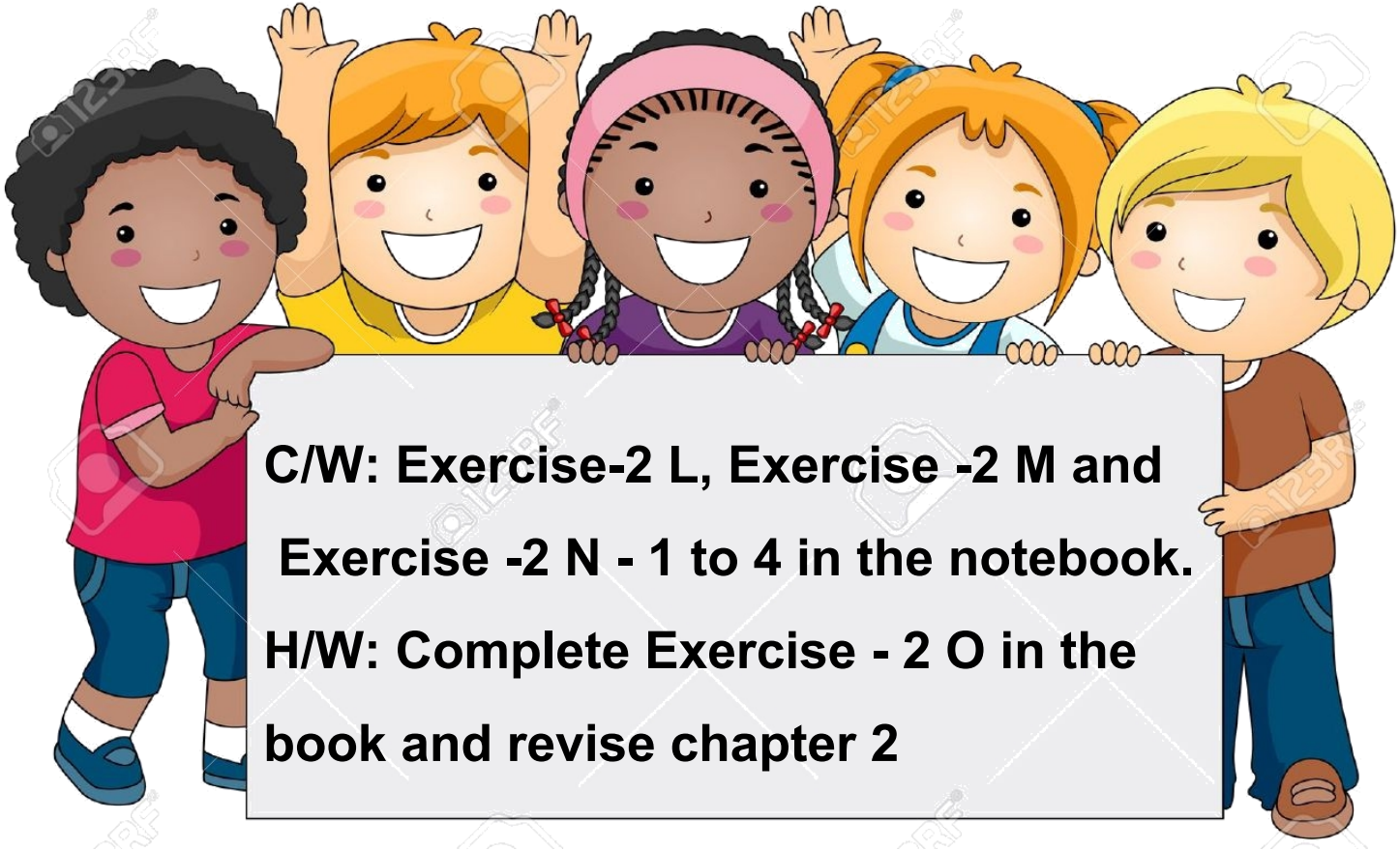

C/W: Exercise-2 L, Exercise -2 M and Exercise -2 N - 1 to 4 in the notebook.

H/W: Complete Exercise - 2 O in the book and revise chapter 2

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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.

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