ODM EDUCATIONAL GROUP
Changing your Tomorrow

SESSION : 1
CLASS : 3
SUBJECT : MATHEMATICS
CHAPTER NUMBER: 2
CHAPTER NAME :NUMBERS
SUBTOPIC : EXPANDED FORM, SHORT FORM

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LEARNING OBJECTIVE :

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They will be able to:

*** Identify the digit in ones, tens and hundred place.**

*** Expand a 3-digit number according to the place value of each digit.**

*** Construct a number when digits of different places are said.**

NUMBERS

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This is a 3-digit place value chart

H	T	O
7	4	6
8	1	3
6	2	9
5	8	0
2	5	7

8 1 3

7 4 6

2 5 7

5 8 0

6 2 9

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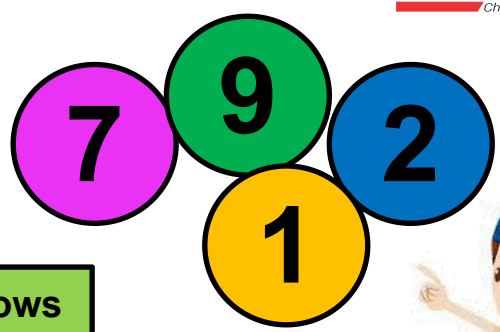
1st number – 1 2 7 9

2nd number – 9 2 7 1

Now let us place it in a 4-digit numbers place value chart as follows

Th	H	T	O
1	2	7	9
9	2	7	1



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Th	H	T	O
1	2	7	9
9	2	7	1

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 .

1st number – 1 2 7 9 = 1000 + 200 + 70 + 9

2nd number – 9 2 7 1 = 9000 + 200 + 70 + 1

NUMBERS

EXPANDED FORM, SHORT FORM

1 9 5 3 = 1 0 0 0 + 9 0 0 + 5 0 + 3

LETS SEE SOME MORE EXAMPLES

1 9 5 3 = 1 0 0 0 + 9 0 0 + 5 0 + 3

NUMBERS

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5 0 4 1 = 5 0 0 0

+ 0 0 0

+ 4 0

+ 1

LETS SEE WHEN '0' IS IN HUNDRED PLACE

5 0 4 1 = 5 0 0 0 + 0 + 4 0 + 1

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7 2 0 6 = 7 0 0 0 + 2 0 0 + 0 + 6

7 0 0 0
+ 2 0 0
+ 0 0
+ 6

LETS SEE WHEN '0' IS IN TENS PLACE

7 2 0 6 = 7 0 0 0 + 2 0 0 + 0 + 6

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3 9 6 0 = 3 0 0 0

\+ 9 0 0

\+ 6 0

\+ 0

LETS SEE WHEN '0' IS IN ONES PLACE

3 9 6 0 = 3 0 0 0 + 9 0 0 + 6 0 + 0

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

3000 + 700 + 90 + 5 = 3795

4000 + 0 + 70 + 8 = 4078

OR

4000 + 70 + 8 = 4078

NUMBERS

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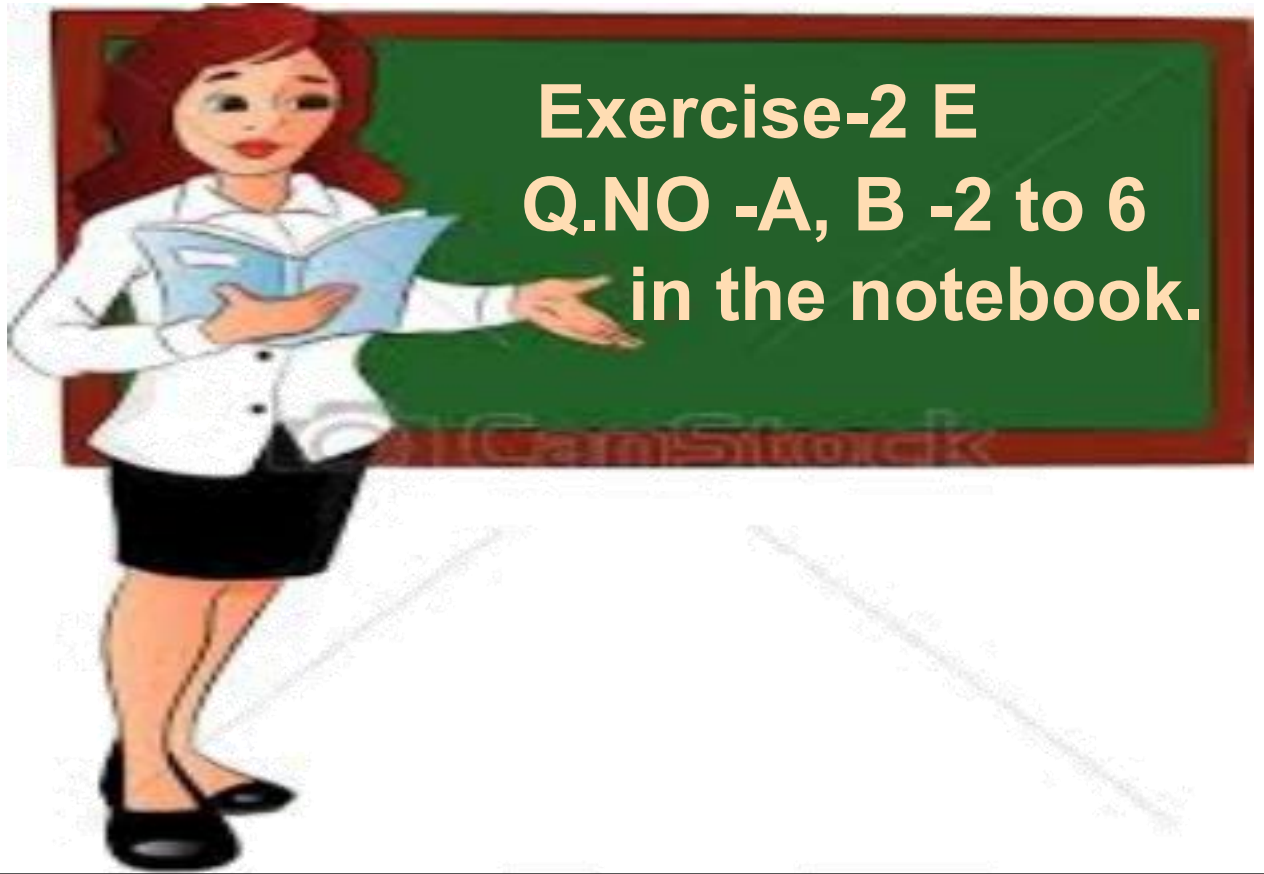

NUMBERS

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A. Write the following numbers in expanded form.

2) 6868 = 6 thousands+ 8 hundreds + 6 tens + 8 ones

3) 2352 = 2 thousands+ 3 hundreds + 5 tens + 2 ones

4) 3714 = 3 thousands+ 7 hundreds + 1 ten + 4 ones

5) 3588 = 3 thousands+ 5 hundreds + 8 tens + 8 ones

6) 5243 = 5 thousands+ 2 hundreds + 4 tens + 3 ones

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B. Write the following in compact form.

2) 3 0 0 0 + 9 0 0 + 3 0 + 5 — 3935

3) 1 0 0 0 + 3 0 0 + 9 0 + 2 — 1392

4) 5 0 0 0 + 5 0 0 + 7 0 + 9 — 5579

5) 6 0 0 0 + 8 0 0 + 1 0 + 3 — 6813

6) 9 0 0 0 + 4 0 + 3 — 9043

NUMBERS

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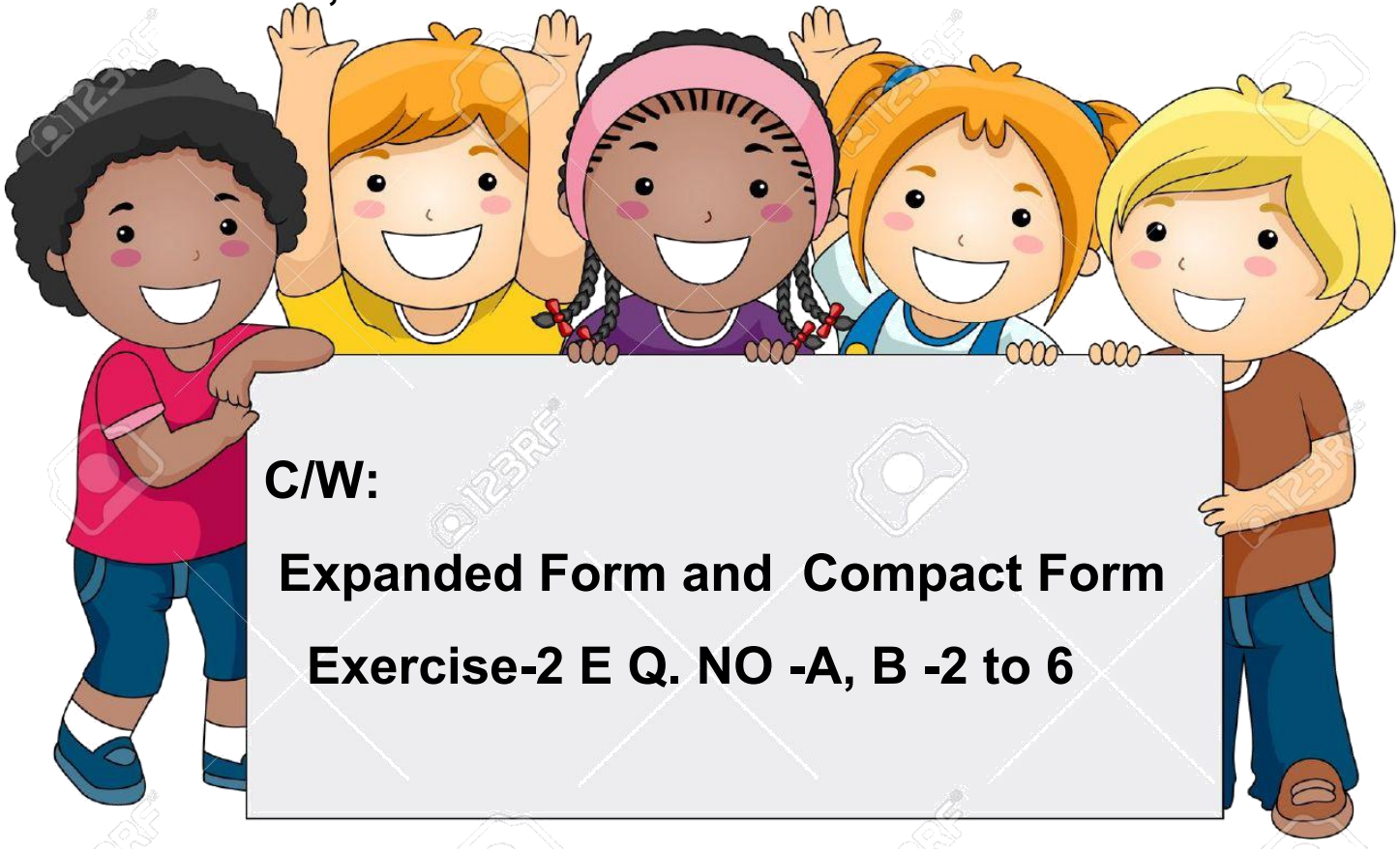

LEARNING OUTCOME:

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Children are confident to find different digits of a 3-digit number in different places. Also can write a 3-digit number in expanded form with correct place values and vice-versa.

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THANKING YOU

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