CLASS V   **SUBJECT:MATHEMATICS**   **TERM 1(2020-21)**

TOPIC-NUMBERS AROUND US
SUB TOPIC- Expanded Form & Short/Standard Form

Name -_____   Class/ Sec - V_____   Date-21.04.2020

EXPANDED FORM OF A NUMBER

In expanded form of a number, the number is shown according to the place values of its digits.
Or
When we write a number as sum of place value of its digits.

Now, let's write the place values as the EXPANDED FORM of the number

EXAMPLE 1

TC	C	TL	L	T Th	Th	H	T	O

EXPANDED FORM of   8   8,   8   8,   8   8,   8   8   8

1ˢᵗ method =

$8\times10,00,00,000+8\times1,00,00,000+8\times10,00,000+8\times1,00,000+8\times10,000+8\times1,000$
$+8\times100+8\times10+8$

          or

$80,00,00,000 + 8,00,00,000 + 80,00,000 + 8,00,000 + 80,000 + 8,000 + 800 + 80 + 8$

2ⁿᵈ method = 8 ten crores + 8crores + 8 ten lakhs +8 lakhs + 8 ten thousands + 8thousands + 8 hundreds + 8 tens + 8 ones

Example 2

	TC	C	TL	L	TTh	Th	H	T	O
Expanded form of	5	0,	0	9,	0	5,	3	0	0

1ˢᵗ method = 5X 10,00,000+0X1,00,00,000+0X10,00,000+9X 1,00,000+0X 10,000+5X1000+3X100+0X10+0

OR

50,00,00,000 + 9,00,000 + 5,000 + 300

2ⁿᵈ method = 5 ten crores + 9 lakhs + 5 thousands + 3 hundreds

SHORT FORM / STANDARD FORM

When we write a number using digits, the number is said to be in standard form.

STEPS TO BE FOLLOWED

● Mark the places in the given expanded form

● Mark dashes as per the places in the period like

— —, — —, — — , — — —
TC C   TL   L   TTh Th H   T   O

● Fill in the digits as per the places. Mark zero for the missing place.

EXAMPLE 1

90,00,00,000 + 6,00,00,000 + 80,000 + 3000 + 600 + 50 = 9 6,0 0, 8 3, 6 5 0
    TC   C   T Th   Th   H   O   TC C   TL L TTh Th H T O

(Remember: We mark zeros for the missing places)

EXAMPLE 2

50,000 + 6,00,000 + 80,00,00,000 + 400 + 20 + 6000 + 5 =   8 0, 0 6, 5 6, 4 2 5
  TTh   L   TC   H   T   Th   O   TC C   TL L TTh Th H T O

LET'S PRACTISE

(Please Note: The following questions are to be done in the notebook)

Q1 Write the expanded form of the following:

a) 3,88,49,125 =
  3X1,00,00,000+8X10,00,000+8X1,00,000+4X10,000+9X1000+1X100+2X10+5=
  3,00,00,000+80,00,000+8,00,000+40,000+9000+100+20+5
  OR
  3 crores + 8 ten lakhs + 8 lakhs + 4 ten thousand + 9 thousand + 1 hundred + 2 tens + 5
  ones

b) 8,00,62,568=8X1,00,00,000+0X10,00,000+0X1,00,000+6X10,000+2X1000+5X100+6X10+
  8
  8,00,00,000 + 0 + 0 + 60,000 + 2,000 + 500 + 60 + 60
  = 8 crores+6 tenthousands+2 thousands+5 hundreds+6 tens+8 ones
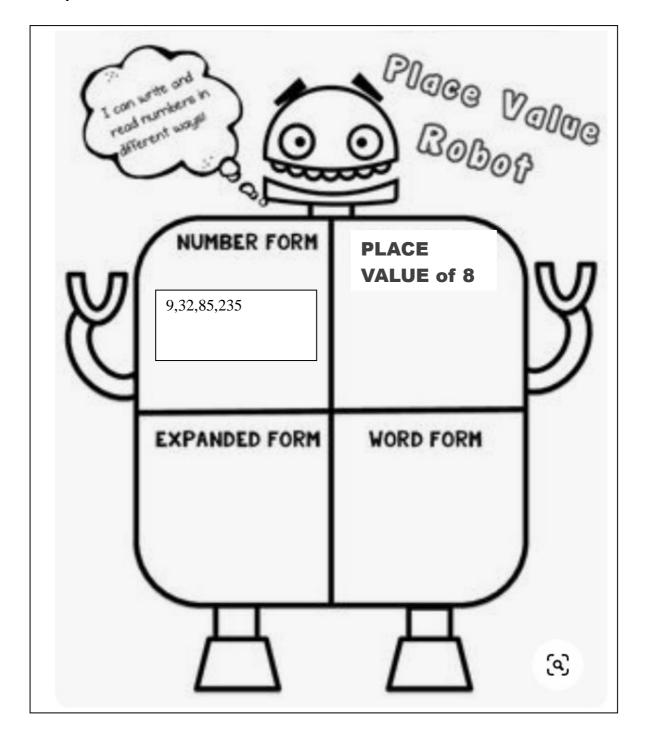

Q2 Write the numerals/ short form:
  a) 8,00,000+50,000+4000+500+90+5 =8,54,595

  b) 6,00,000+20,000+4000+500+90+5 =6,24,595

Do Q 4 e,f   & Q 5 e, f in your notebook from the Maths Book Page 9 (the questions
are highlighted **in RED** in the scanned page of the book attached below for your
reference)

Complete the boxes in the Place Value ROBOT.

Place Value Robot

I can write and read numbers in different ways!

NUMBER FORM

9,32,85,235

PLACE VALUE of 8

EXPANDED FORM

WORD FORM

4. Write the expanded form of the following:
   - (a) 6,83,48,109
   - (b) 2,88,49,125
   - (c) 4,00,52,568
   - (d) 14,89,20,056
   - (e) 72,44,63,100
   - (f) 4,00,95,108

5. Write the numeral:
   - (a) $7,00,000 + 50,000 + 4,000 + 500 + 90 + 5 =$ _____
   - (b) $9,00,000 + 50,000 + 4,000 + 500 + 90 + 5 =$ _____
   - (c) $80,00,00,000 + 4,00,00,000 + 5,000 + 700 + 80 + 2 =$ _____
   - (d) $90,00,00,000 + 80,000 + 3,000 + 600 =$ _____
   - (e) $50,00,000 + 6,00,00,000 + 40 + 5 + 200 =$ _____
   - (f) $1,00,00,000 + 40,00,000 + 60,000 + 8,000 + 6 =$ _____

6. Compare the following numbers and put >, < or = sign.
   - (a) $9,99,999 + 1$ ◯ smallest 7 digit number
   - (b) $40,00,000 + 6,000 + 6$ ◯ 45 lakhs
   - (c) Predecessor of 8,00,00,000 ◯ $70,00,000 + 9,00,000 + 900 + 9$
   - (d) Place value of 6 in 62,305 ◯ 6 ten thousands
   - (e) 45 crores + 15 crores ◯ 50 crores
   - (f) 13 crores + 200 lakhs ◯ 15 crores
   - (g) 7,35,15,296 ◯ 7,44,05,135