

SESSION: 4 CLASS: V SUBJECT: MATHEMATICS CHAPTER NUMBER: 2 CHAPTER NAME : INDIAN NUMBER SYSTEM SUBTOPIC : Expanded form and compact form, example 3 and 4 Discussion of exercise 2 - A : Q. No 3 and 4

CHANGING YOUR TOMORROW

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LEARNING OBJECTIVE :



Enable the students

- To know about Expanded notation of larger numbers.
- To know about the compact/standard form.
- It increases their practical knowledge more about the place value system.

Expanded form of large numbers



What is a Expanded form ?

Expressing the number as the sum of the place value of each digit in that number.

You already know how to write a number in the expanded form. Let us see one example,

53,856 = 50,000 + 3,000 + 800 + 50 + 6



Larger numbers are written in the expanded form in the same way as the smaller numbers.

Let us write this number 42,27,35,842 in expanded form.



ТС	С	TL	L	TTh	Th	Н	Т	0	
4	2	2	7	3	5	8	4	2	
 <u>Step-</u>	<u>2</u>								
тс		С	TL	L	TTh	Th	Н	т	0
4		2	2	7	3	5	8	4	2
40,00,00, 000		0,0	20,00, 000	7,00, 000	30 , 000	5,000	800		

Expanded form of large numbers



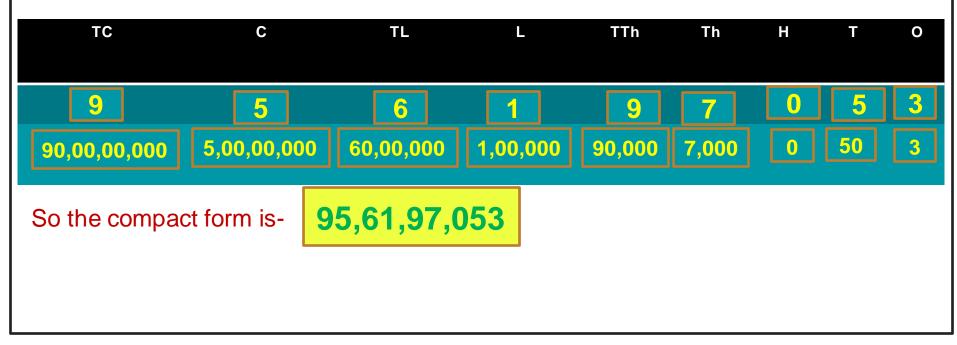
Step-3

Now write 42,27,35,842 as the sum of its place value of its digits. That is

42,27,35,842 =40,00,00,000+2,00,000+20,00,000+7,00,000+ 30,000+5,000+800+40+2

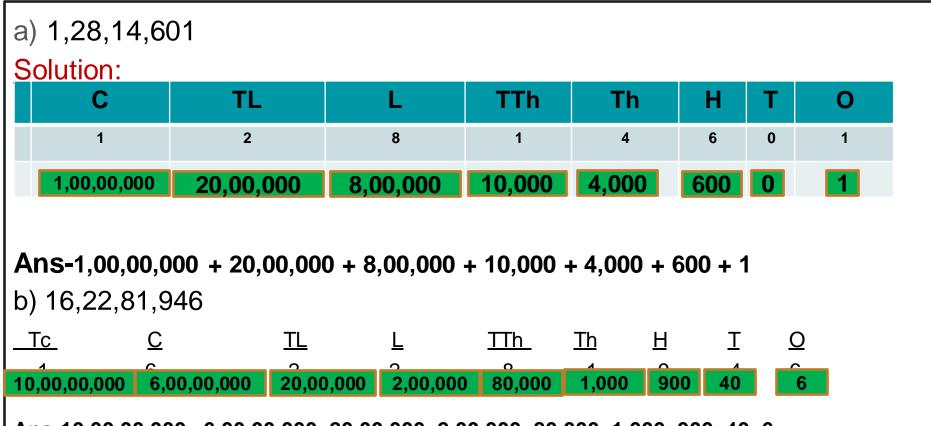


Compact form/Standard form is, writing the numeral from the expanded notation. Lets see an example: 90,00,000+5,00,000+60,00,000+1,00,000+90,000+7,000+0+50+3



Q.No,3) Give the expanded form of the following numbers(Ex-2-A)





Ans-10,00,000,000 +6,00,000,000+20,00,000+2,00,000+80,000+1,000+900+40+6



a) 20,00,000 +6,00,000+80,00,000+4,00,000+20,000+7,000+300+50+6 <u>Solution:</u>

Тс	С	TL	L	TTh	Th	н	Т	0
2	6	8	4	2	7	3	5	6
20,00,00,000	6,00,00,000	80,00,000	4,00,000	20,000	7,000	300	50	6

Ans- 268427356 = 26,84,27,356

b) 30,00,000 +8,00,000+40,00,000+6,00,000+40,000+2,000+300+40+6

Ans- 3 8 4 6 4 2 3 4 6

c) 50,00,000 +7,00,000+50,00,000+6,00,000+80,000+3,000+100+90+2

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Ans- 575683192 = 57,56,83,192
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Complete exercise 2 A Q. No 3 and 4 in the notebook.



 Students are able to use the expanded form and compact form while solving problems.



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