



Name - \_\_\_\_\_

Class/ Sec - V \_\_\_\_\_

Date 06.04.2020

**Numbers beyond 99,99,999**

**Need for large numbers:**

- Why do we need numbers with more than 7-digits?
- Where do we use them?

The Mangalyaan was sent by the Indian Space Research Organisation from Earth to Mars. The distance between Earth and Mars is approximately 5,46,00,000 km.

Now how would you read this number?

- ❖ The knowledge of large numbers enables us to visualize the universe, write the distance of planets from the Sun and Earth. This is only one of the examples why we need to study about large numbers.
- ❖ Complete this table in the book/ notebook and find how many times our heart beats in a year.

**My Heart Beats!**

My age: (Write your age) \_\_\_\_\_ years

Heart beats in 1 minute:	_____	=	_____	times
Heart beats in 1 hour:	$72 \times 60$	=	$4320$	times
Heart beats in 1 day:	$4320 \times 24$	=	_____	times
Heart beats in 1 month:	_____ $\times 30$	=	_____	times
Heart beats in 1 year:	_____ $\times 12$	=	_____	times
Heart beats in _____ years (your age):	_____ $\times$ _____	=	_____	times

**Dhak!**  
**Dhak!**  
**Dhak!**

In the previous class, we studied numbers upto 7-digits(Ten lakhs place). Now, we will study 8-digit numbers and 9-digit numbers.

Let's understand the 8-digit number.

As you know, the largest 7-digit number is 99,99,999. If we find its successor (add 1 to it), we get the smallest 8-digit number.

$$\begin{array}{rcl}
 99,99,999 & + & 1 \\
 \text{(largest 7-digit number)} & & \\
 & = & 10000000 \\
 & & \text{( smallest 8-digit number)}
 \end{array}$$

**EXAMPLE 1:** Now, let's place this 8-digit number in the Indian Place Value Chart according to the places of each digit.

Periods	CRORES		LAKHS		THOUSANDS		ONES		
Places	Ten Crores	Crores	Ten Lakhs 10,00,000	Lakhs 1,00,000	Ten Thousands 10,000	Thousands 1,000	Hundreds 100	Tens 10	Ones 1
Number		1	0	0	0	0	0	0	0

So, we see that the **smallest 8-digit number** 10000000 is written as **1,00,00,000** and its number name is **1 crore**.

We mark periods using commas e.g 1, 00, 00, 000  
Cr L Th Ones

**EXAMPLE 2:** Let's place one more 8-digit number in the place value chart. E.g 6, 29, 29, 293  
Cr L Th Ones

Periods	CRORES		LAKHS		THOUSANDS		ONES		
Places	Ten Crores	Cr o r e s	Ten Lakhs 10,00,000	Lakhs 1,00,000	Ten Thousands 10,000	Thousand s 1,000	Hundred s 100	Tens 10	Ones 1
Number		6	2	9	2	9	2	9	3

Similarly, let's understand 9-digit number

$$9,99,99,999 + 1 = 100000000$$

(largest 8-digit number) (smallest 9-digit number)

It means 100000000 is written as 10, 00, 00, 000 = 10 crores  
 Cr L Th Ones

Now, let's place this **9-digit number** in the Indian Place Value Chart according to the places of each digit.

Periods	CRORES		LAKHS		THOUSANDS		ONES		
Places	Ten Crores	Crores	Ten Lakhs 10,00,000	Lakhs 1,00,000	Ten Thousands 10,000	Thousands 1,000	Hundreds 100	Tens 10	Ones 1
Number	1	0	0	0	0	0	0	0	0

**LET'S PRACTICE**

(to be done in the notebook)

**Q1. Write the given large numbers in the Indian Place Value Chart (given below) according to the places of each digit.**

- A) 65120245
- B) 73690089
- C) 186403256
- D) 246398734

Periods	CRORES		LAKHS		THOUSANDS		ONES		
Places	Ten Crores	Crores	Ten Lakhs 10,00,000	Lakhs 1,00,000	Ten Thousands 10,000	Thousands 1,000	Hundreds 100	Tens 10	Ones 1
A)		6	5	1	2	0	2	4	5
B)									
C)									
D)									

**Q2. Mark the periods using commas:**

A) 76529694

B) 43925051

C) 958201572

D) 252912016

**(to be done in this sheet itself or any notebook, if printout is not possible)**



Watch this video for more information: <https://www.youtube.com/watch?v=0xYUV3T505o>

- Do you know... The Ozone layer (that is, the protective layer of the earth) has healed a lot according to a recent study.

**Ques: Can you think of two major reasons that have led to the healing of the Ozone layer ?**

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**Ques: Now, think and write four changes we should bring in our day to day life to ensure that this self-healing phenomenon of the Ozone layer continues.**

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