

DAV INSTITUTIONS
ODISHA , ZONE-1
DAV PUBLIC SCHOOL
CHANDRASEKHARPUR
BHUBANESWAR
CLASS - IV

SUB - MATHEMATICS

TOPIC - NUMBERS UPTO 999999

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○ OBJECTIVES

- * Recognise largest and smallest 5-digit and 6-digit numbers.
- * Express a number in numeral form as well as in word form.
- * Expand a given number in 3 different ways .
- * Find the place , place value and period of a digit in a number.
- * Compare between numbers and arrange numbers in ascending and descending order.



MINIMUM LEVELS OF LEARNING

MLL WORKSHEET

(1) Fill in the blanks.

- (a) The greatest 4 – digit number is _____,
- (b) The numeral for Five thousand seven hundred sixty is _____.
- (c) The successor of 4899 is _____.
- (d) $2000 + 300 + 5 =$ _____.
- (e) One thousand _____ greatest 3-digit number + 1.(Put $<$, $>$ or $=$)
- (f) The place value of 6 in 8603 is _____.
- (g) The predecessor of 4000 is _____.

(2) Write the number names for the following numerals.

- (a) 3875 =
- (b) 8004 =

(3) Write 4678 in expanded form.

(4) Arrange the following in ascending order.

3950, 3098, 3008, 3509, 3059

(5) Write the greatest and smallest 4- digit number using the digits 7,0,3 and 1 only once.



- Dear children first go through this video

- <https://drive.google.com/open?id=1Ila6K53D47WIC3lEkRXWZBq1z78GsNBv>



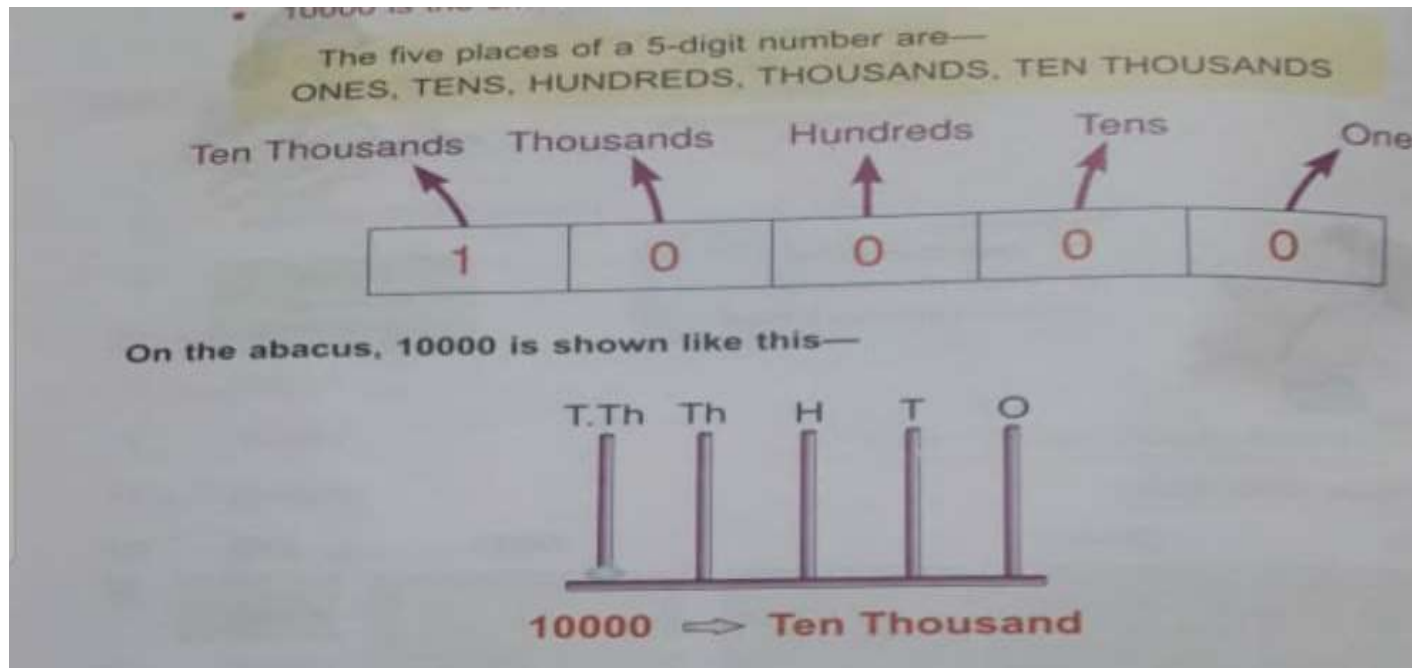
○ NUMBERS BEYOND 9999

Introduction to 5-digit numbers

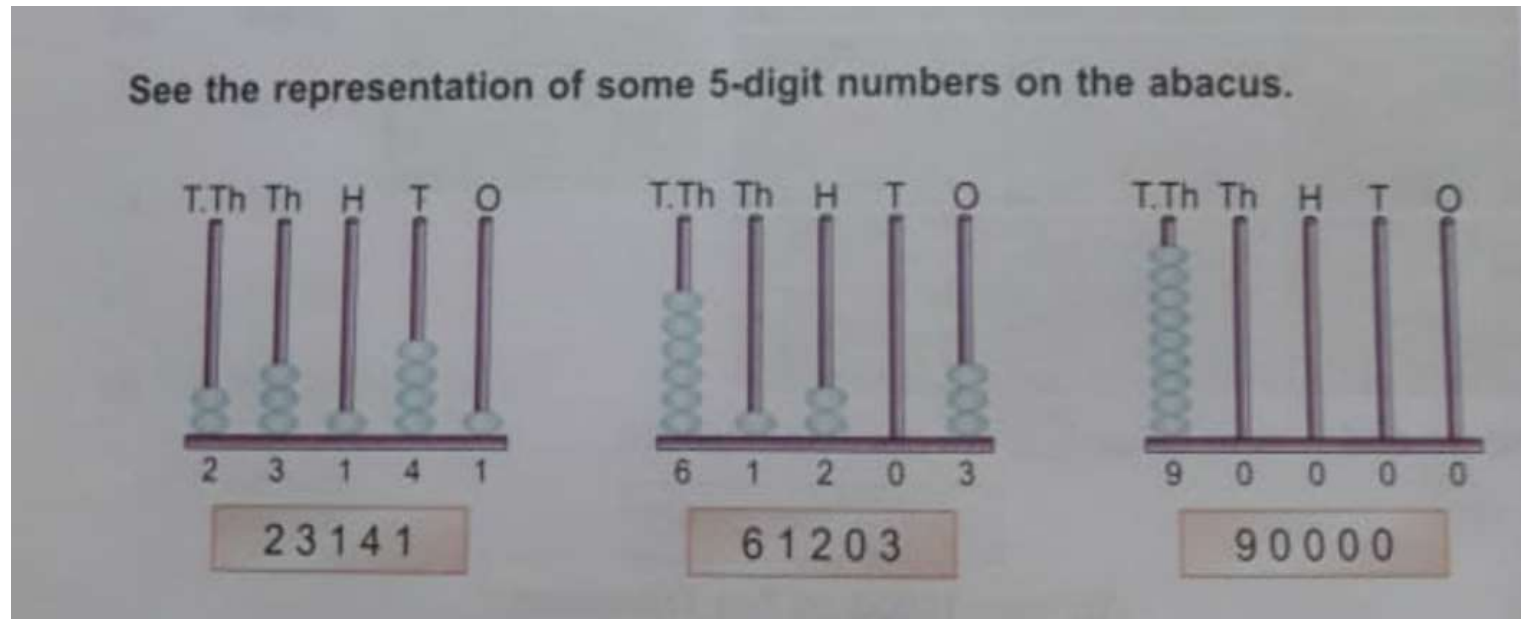
The largest 4-digit number = 9999

$$\text{add } 1 + \quad 1$$

The smallest 5-digit number = 10000



https://drive.google.com/open?id=1ImF3_nzepRRlPwUbQXgx4zaNxi2MgHSx



HW-Do -Worksheet -1 of Primary maths book



○ Introduction to one Lakh

The largest 5-digit number = 99999

$$\text{add } 1 + \underline{\quad 1}$$

The smallest 6-digit number = 100000 (it has six digits)

its places are : L Tth TH H T O

1 0 0 0 0 0

So it is read as one lakh.

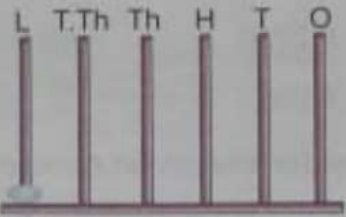
One lakh has 6-places in it .



ABACUS FOR 6 DIGIT NUMBERS

1 lakh = 10 times ten thousand

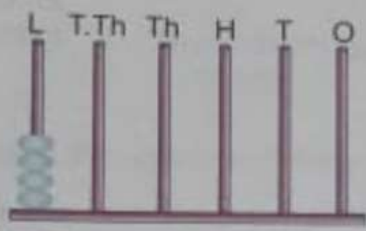
On the abacus, 100000 is shown like this—



The abacus has six vertical rods labeled L, T.Th, Th, H, T, O from left to right. A single blue bead is placed on the L rod.


100000 → One Lakh

Similarly,



The abacus has six vertical rods labeled L, T.Th, Th, H, T, O from left to right. Four blue beads are stacked on the L rod.

400000 → Four Lakh



A cartoon girl with pigtails, wearing a white shirt and blue overalls, is pointing upwards with her right hand.

One lakh,
Two lakh,
Three lakh,
Four lakh

We extend the numerals beyond one lakh in the same way as we did from 10000 to 99999.



- Reading and writing 5 and 6 digit numbers
- <https://youtu.be/an09qpWdRZw>

Ex-1-Write the number names for the following numerals :

- a) $23,078 =$ Twenty three thousand seventy eight
- b) $5,45,123 =$ Five lakh forty five thousand one hundred twenty three.
- c) $6,00,321 =$ Six lakh three hundred twenty one.

- HW-Do Worksheet-2 from primary maths book

<https://drive.google.com/open?id=1JJ23xCT1VR72>
G-Tkn_eg424iDzdyWSI6

10 times Ten Thousands 10 times Thousands 10 times Hundreds 10 times Tens 10 times Ones

Lakhs Ten Thousands Thousands Hundreds Tens Ones

10000×10 1000×10 100×10 10×10 1×10 1

Now, let us enter numerals, 8436, 49018, 643821 in the place value chart.

	Lakhs 100000	Ten Thousands 10000	Thousands 1000	Hundreds 100	Tens 10	Ones 1
8436 →			8	4	3	6
49018 →		4	9	0	1	8
643821 →	6	4	3	8	2	1



○ PLACE VALUE CHART

○ NOTES

- 1-The smallest place (ones) is on the extreme right side.
- 2-Each place becomes a multiple of 10 as we are going towards left .

HW- Do worksheet-3 from primary maths book .



<https://youtu.be/h-AwuegVeXQ>

Place value of a digit in a number = The digit x its place

Face value of a digit in a number = The digit itself

Ex-1- Write the place value and face value of the underlined digits

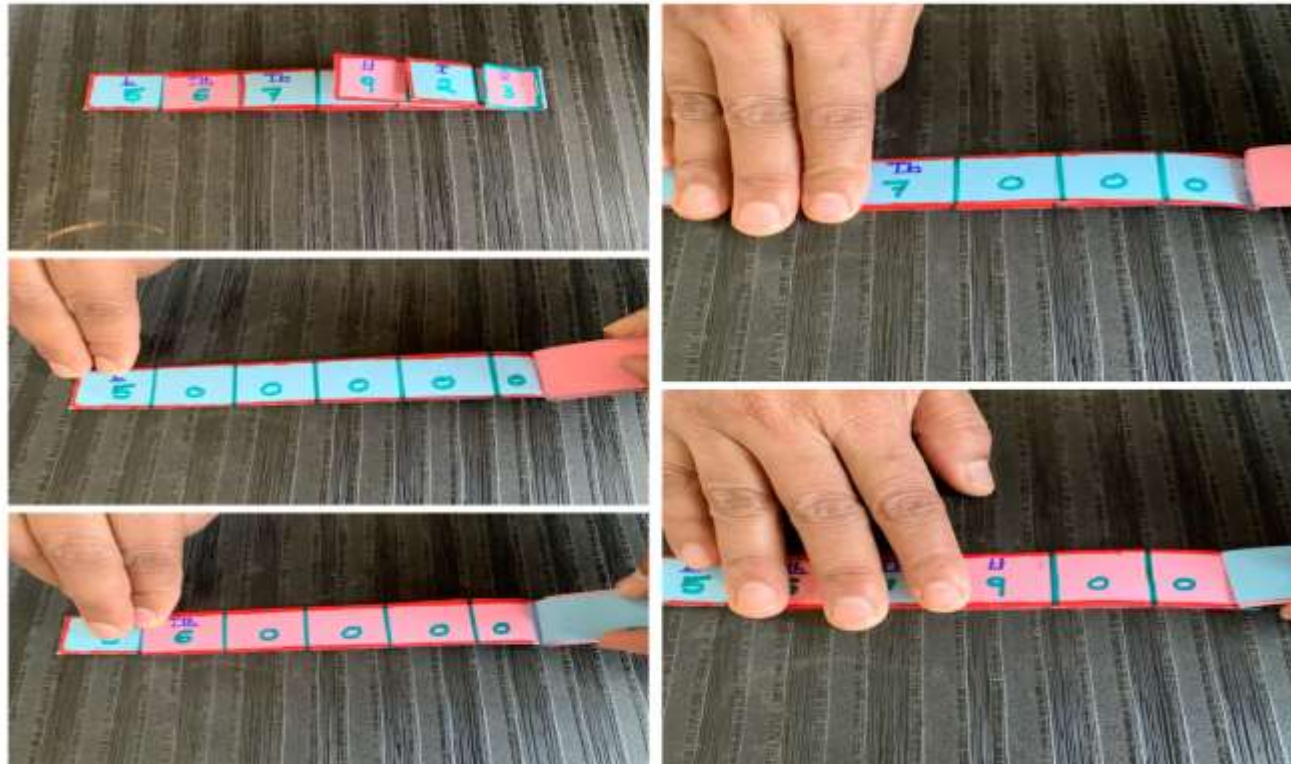
Number	Place value	Face value
1- 3, <u>5</u> 4,698	$4 \times 1000 = 4000$	4
2- <u>5</u> ,08,231	$5 \times 100000 = 500000$	5
3- <u>3</u> ,23,345	$3 \times 100000 = 300000$	3

HW- Do Worksheet-4 and 5 of Primary Maths book .



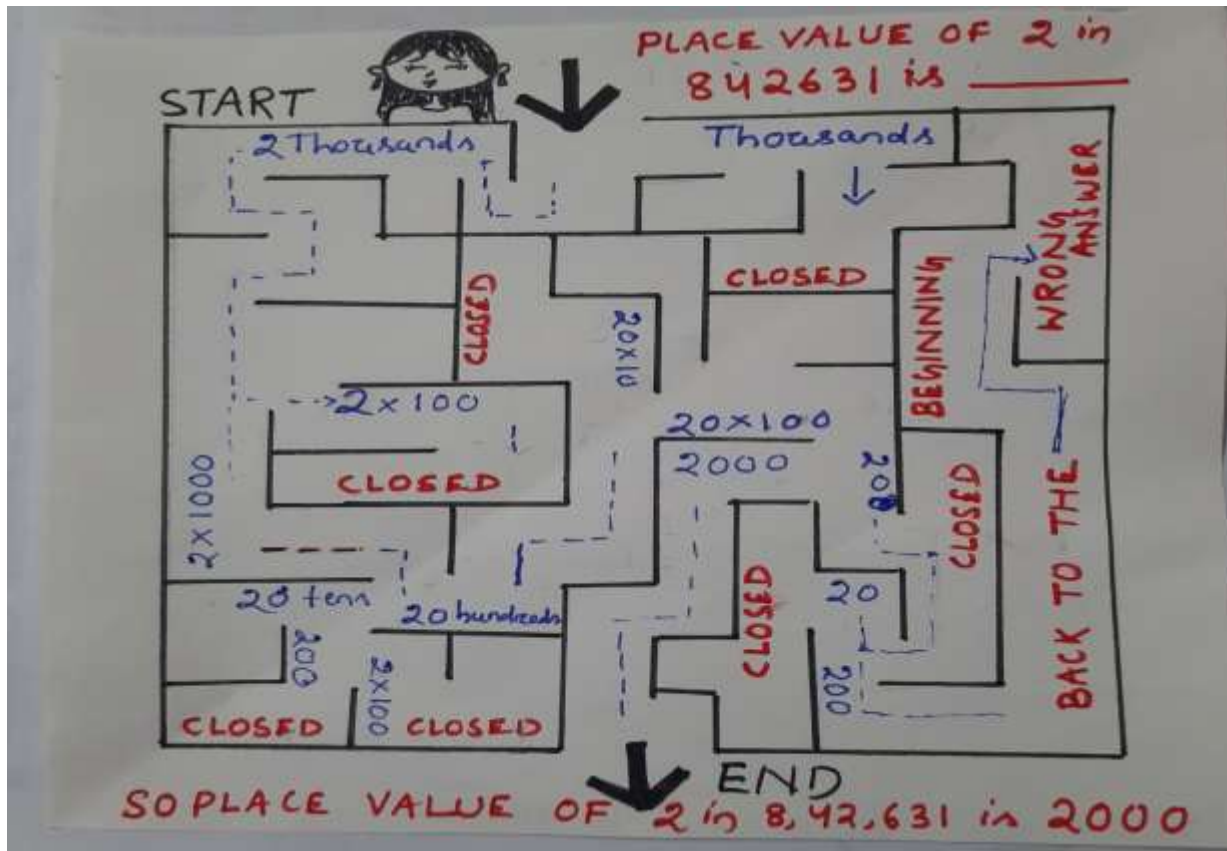
ART INTEGRATION (PLACE VALUE)

[HTTPS://YOUTU.BE/TBHF7UVF7_0](https://youtu.be/TBHF7UVF7_0)



ART INTEGRATION (PLACE VALUE MAZE)

[HTTPS://YOUTU.BE/KUDL3IMWYWA](https://youtu.be/KUDL3IMWYWA)



ART INTEGRATION (SECRET CODE MESSAGE)

SECRET CODE MESSAGE

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>I</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1	2	3	4	5	6	7	8	9	10	11	12	13
<u>N</u>	<u>O</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
14	15	16	17	18	19	20	21	22	23	24	25	26

EX-1- " 19 20 1 25 8 15 13 5.
" S T A Y H O M E
19 20 1 25 19 1 6 5 "
S T A Y S A F E "

Q-1- 7 15 3 15 18 15 14 1 3 15 18 15 14 1 7 15
"

Q-2-
7 18 5 5 14 9 14 4 9 1 3 12 5 1 14 9 14 4 9 1

DECODE THE ABOVE MESSAGES.



COMPARISON OF NUMBERS

HTTPS://DRIVE.GOOGLE.COM/OPEN?ID=1JYAN8CLFSYFY_UWATY7E3W_BAX7AITNR

Example-1-Compare the following pairs of numerals (using $>$, $=$, $<$)

a- 34,098 _____ 34,089

b- 2,36,546 _____ 2,36,564

c- 99999 _____ 100000

d- 709777 _____ 700079

e- 656723 _____ 566723

f- 99999 + 1 _____ 100000



ASCENDING AND DESCENDING ORDER

PLEASE GO THROUGH THE VIDEO

[HTTPS://YOUTU.BE/ASLfvNHifsY](https://youtu.be/ASLfvNHifsY)

- **ASCENDING ORDER**- Ascending order of numbers is to arrange the numbers from Smallest to largest .

Ex- 1- Arrange the following numbers in ascending order :

a) 900999 , 99999 ,900099 ,990099

A- $99999 < 900099 < 900999 < 990099$

b) 777908 , 779708 ,99977 , 797708

A- $99977 < 777908 < 779708 < 797708$



- **DESCENDING ORDER-** Descending order of numbers is to arrange the numbers from largest to smallest.

Ex- 1- Arrange the following numbers in descending order :

a) 45444 , 444045 , 544045 , 440045

A- $544045 > 444045 > 440045 > 45444$

b) 324167 , 234167 , 432167 , 321467

A- $432167 > 324167 > 321467 > 234167$

HW- Do worksheet- 7 and Brain teasers from the primary mathematics book

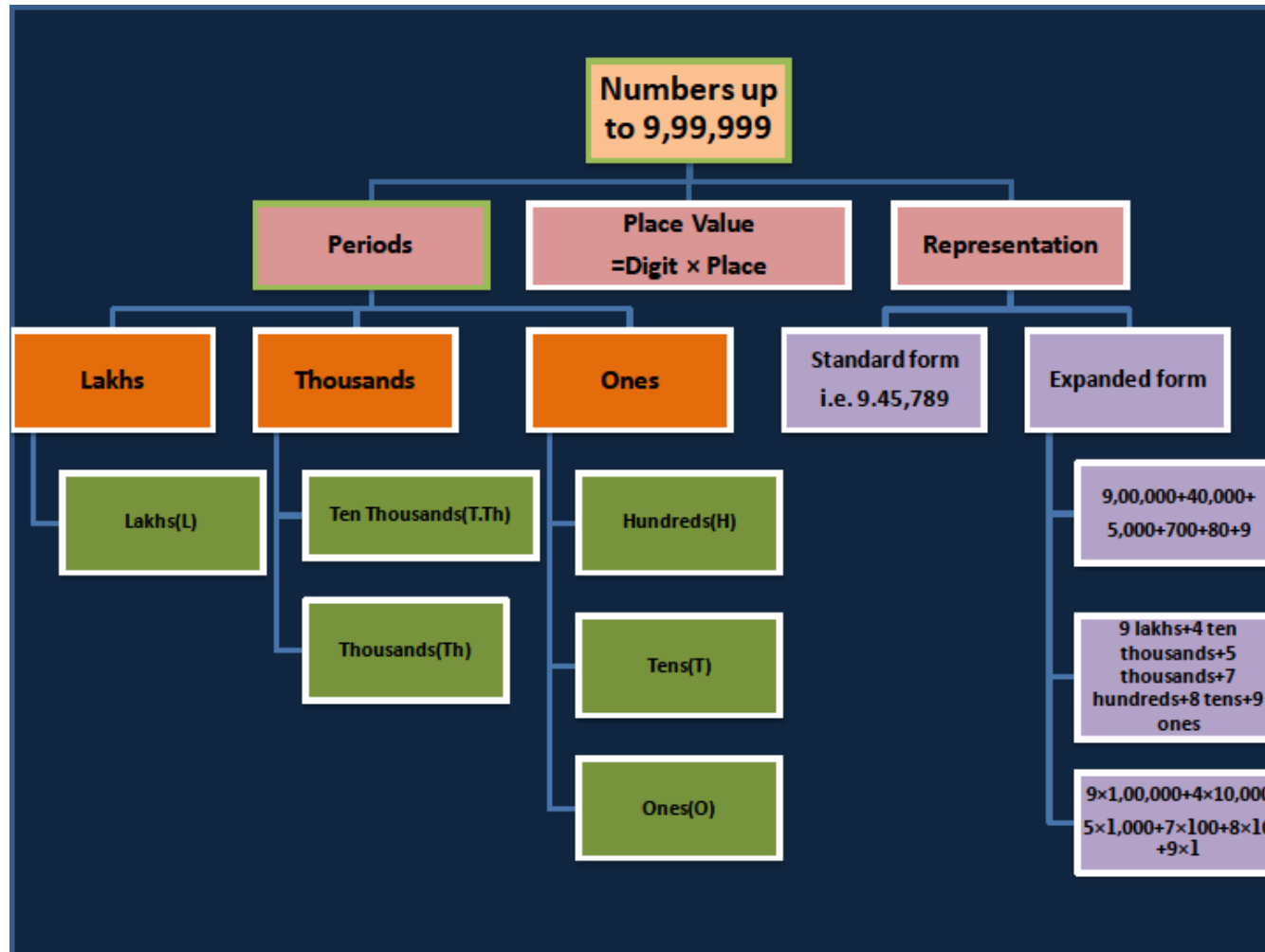


FRAYERS MODEL

Numbers Up to 9,99,999	MEANING	EXAMPLE	NON-EXAMPLE
Reading and writing the number names of 5 and 6 digit numbers	While reading the numerals of a number, all the digits in the same period are read together, and the name of the period (except ones) is read along with them.	23,695 – Twenty three thousand six hundred ninety five.	2 ten thousands, 3 thousands, 6 hundreds, 9 tens and 5 ones
Place value	The place value of a digit in a numeral is the product of the digit and its place in the numeral.	In 43972, place value of 4 is 40000, 3 is 3000, 9 is 900, 7 is 70 and 2 is 2.	In 43972, place value of 4 is ten thousands, 3 is thousands, 9 is hundreds, 7 is tens and 2 is ones.
Expanded Form	Writing the place values of all the digits using '+' symbol	$95164 = 90000 + 5000 + 100 + 60 + 4$	$95164 = 90000, 5000, 100, 60, 4$
Standard Form	Sum of all the place values	$60000 + 3000 + 200 + 8 = 63208$	$60000 + 3000 + 200 + 8 = 6328$
Ordering of Numbers	Finding greater or smaller number and arranging numbers from greater to smaller or smaller to greater	*7,34,709 < 7,34,790 *Ascending order 40,040 < 40,400 < 40,404 < 40,440	*7,34,709 > 7,34,790 * Ascending order 40,040 > 40,400 > 40,404 > 40,440



CONCEPT MAP



ONLINE TEST

<https://drive.google.com/open?id=1w5PgEQzUJ4qf2grxYjXaVkrJP3jpwXr723pPuWa7TwE>



BASIC WORKSHEET

DAV PUBLIC SCHOOL, CHANDRASEKHARPUR, BHUBANESWAR-21

MATHEMATICS

Chapter-1

NUMBERS UPTO 9,99,999(BASIC) STD-IV

Time: 45 min

Full Mark:20

1. Fill in the blanks. (6x1=6)
 - a. Largest 6 digit number is _____.
 - b. 34,789 _____ 34,879 (Put <, > or =)
 - c. $5,00,000+70,000+9,000+200+40+1=$ _____ (Write in standard form)
 - d. In 79736; the digit at thousands place is _____.
 - e. The successor of 6,33,987 is _____.
 - f. In 8,83,469 ; the digit 3 is in _____ place.
2. Choose the correct option. (4x1=4)
 - a. Choose the number that goes in the blank.
 $20000+ \text{_____} +800+40+5=28845$
 - i. 80000
 - ii. 8000
 - iii. 400
 - iv. 5000
 - b. Which of the following place is not included in ones period?
 - i. Ones
 - ii. Tens
 - iii. Hundreds
 - iv. Thousands
 - c. Place value of 5 in 75,986 is-
 - i. 5
 - ii. 500
 - iii. 50
 - iv. 5000
 - d. The standard numeral for seventy five thousand three hundred twenty is _____.
 - i. 75320
 - ii. 7532
 - iii. 75302
 - iv. 57230
3. Answer the following. (2x2=4)
 - a. Draw an abacus and represent 45,213 in it.
 - b. Find the smallest and largest number among the following numbers.
440055; 405413; 541003; 540799; 450387;
4. Answer the following (2x3=6)
 - a. Write the expanded form of 2,95,458 in three different ways.
 - b. Form any 4 five digit numbers using the digits 9, 2, 4, 3, 1 without repeating any digit and arrange the numbers in descending order.



STANDARD WORKSHEET

DAV PUBLIC SCHOOL, CHANDRASEKHARPUR, BHUBANESWAR-21
MATHEMATICS

Chapter-1

NUMBERS UPTO 9,99,999(STANDARD)

STD-IV

Time: 45 min

Full Mark:20

1. Fill in the blanks. (6x1=6)
 - a. One lakh=_____ Thousands.
 - b. Place value of _____ always remains same.
 - c. $8,00,000+6000+20+300+1=$ _____ (Write in standard form)
 - d. Successor of largest 5 digit number has _____ digits.
 - e. 56908 _____ $50000 + 600 + 90 + 8$ (put <, > or =).
 - f. The sum of all the digits of largest 5 digit number is _____.
2. Choose the correct option. (4x1=4)
 - a. Smallest 5 digit number without repetition is-
 - i. 12345
 - ii. 12034
 - iii. 10234
 - iv. 10235
 - b. Difference between the place values of two fives in 7 56 358 is-
 - i. 50050
 - ii. 49950
 - iii. 9990
 - iv. 50500
 - c. The predecessor of 7,87,000
 - i. 6,87,000
 - ii. 7,86,000
 - iii. 7,86,999
 - iv. 7,86,099
 - d. In 5 97 361, the period of 3 is
 - i. Hundreds
 - ii. Ones
 - iii. Tens
 - iv. 3 hundreds
3. Answer the following. (2x2=4)
 - a. Draw the place value chart to represent 839082.
 - b. Find the place value and period of the encircled digits.
8 (9) 5 6 7 1
4. Answer the following. (2x3=6)
 - a. Write the greatest and smallest 6 digit number formed by using the digits 6, 0, 9, 5, 4, 2 only once. Also write the number names after putting commas between periods.
 - b. Find the place values of the digits in Tens and Hundreds place of 883569. Also find the product of the two place values.



ADVANCED WORKSHEET

DAV PUBLIC SCHOOL, CHANDRASEKHARPUR, BHUBANESWAR-21

MATHEMATICS

Chapter-1

NUMBERS UPTO 9,99,999 (ADVANCED)

STD-IV

Time: 45 min

Full Mark:20

1. Fill in the blanks. (6x1=6)
 - a. Total number of 6 digit counting number is _____.
 - b. 50 Ten thousand=_____ Hundreds.
 - c. The difference between predecessor and successor of any number is _____.
 - d. If 27 is written just after ones place digit of a five digit number the digit at thousands place is increased by _____ times.
 - e. A number is always greater than the place value of any of its digits. _____.
True/False.
 - f. While writing all the counting numbers up to 99, the digit 9 will occur _____ times.
2. Choose the correct option. (4x1=4)
 - a. You can form _____ (how many) 4 digit numbers using 2, 0, 4 and 3 if repetition is not allowed.
 - i. 12
 - ii. 14
 - iii. 18
 - iv. 20
 - b. In 98 735, the place vale of 9 is how many times as much as the place value of 3?
 - i. 30
 - ii. 3
 - iii. 300
 - iv. 3000
 - c. The sum of all the digits of a 5 digit number is 4. The product of all the digit of the number is _____.
 - i. 1
 - ii. 0
 - iii. 4
 - iv. 20
 - d. 1 30 879; 1 40 779; 1 50 679; _____(complete the pattern)
 - i. 1 50 579
 - ii. 1 60 679
 - iii. 1 60 578
 - iv. 1 60 579
3. Answer the following. (2x2=4)
 - a. The population of Subarnapur, Malkangiri, Jharsugda, Nuapada districts are respectively 610183 ; 613192; 579505; 610382. Arrange the districts in descending order according to their population.
 - b. Change the position of the digits in 605008(if necessary) to get the smallest six digit number possible. Write the number name of the smallest number.
4. Answer the following. (2x3=6)
 - a. Find the place values of the digits in Thousands and Ones place of 883569.Find the product of two place values.
 - b. Form the smallest and largest 6 digit number using the digits 3,6,9,8 and 5. You have to use all the digits and you can repeat only one digit. Also write the number names of the numbers formed.



HOTS WORKSHEET

DAV PUBLIC SCHOOL, CHANDRASEKHARPUR, BHUBANESWAR-21
MATHEMATICS
Chapter-1
NUMBERS UPTO 9,99,999 (HOTS) STD-IV

1. Raman is playing a new game of finding numbers by throwing a dice. He throws the dice and the number which appear in first throw is written in thousands place, the number that comes in second throw is written in hundreds place and so on. After getting a four digit number he again starts the cycles to get all the four digit numbers he can get.
How many different four digit numbers will he get in his list?

2. When Praveen asked Reema how much salary she get; without answering his question directly she gave him following clues.
 - a. The amount is a five digit number having 4 in the middle.
 - b. The digit at the Ten thousands place is one third of the digit at tens place.
 - c. The ones place has the smallest counting number.
 - d. The digit at Tens place is the sum of the digits at Ten thousand place and hundred.
 - e. The digit at Thousands place is half of the digit at tens place.

Find Reema's salary



THANK YOU

