



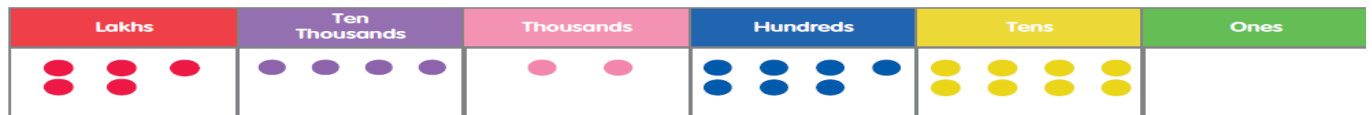
PREACTIVITY :- Lets begin from T.B. Page no. 71

1 Let's fill in the blanks to know the numbers.

- a) 2000 b) 2400 c) 4166 d) Answer may vary

Number talk page no. 73

Draw counters to represent 5,42,780 in the Indian number system. Also, write it in words and expanded form.

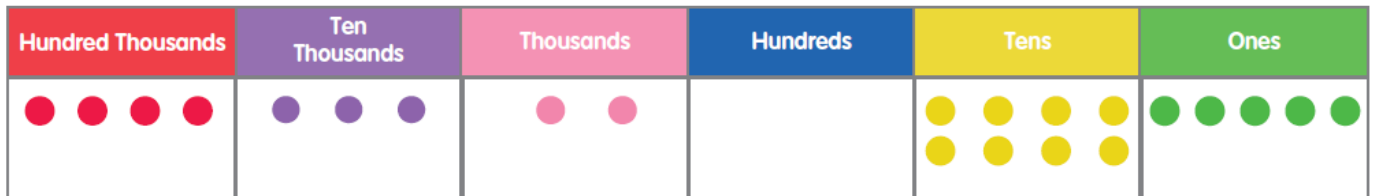


In words – **Five lakh, Forty two thousand, Seven hundred eighty**

Expanded form – **$5.00.000 + 40.000 + 2.000 + 700 + 80 + 0$**

Number talk page no. 74

Draw counters to represent 432,085 in the International number system. Also, write it in words and expanded form.

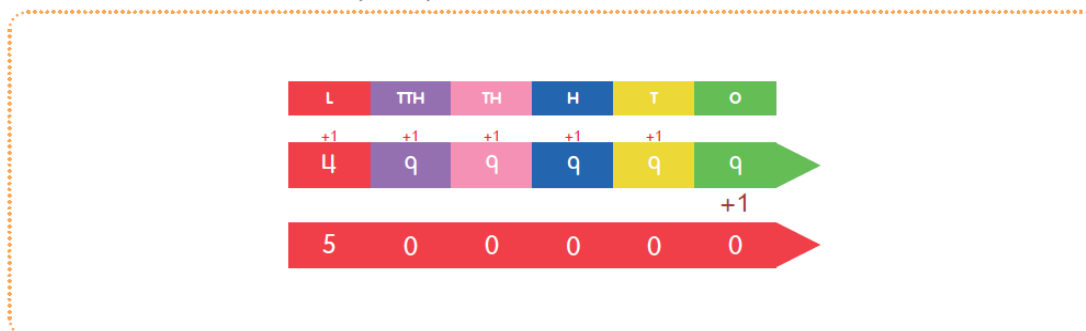


In words – **Four hundred thousand, thirty two thousand, eighty five**

Expanded form – **$400.000 + 30.000 + 2.000 + 80 + 5$**

TEXT BOOK Page no. 75

Draw arrow cards to solve, $499,999 + 1$.



Concrete Stage

Use ' Arrow cards to represent the given numerals .Write the expanded form and value of the Underlined digits in Indians number System .

a) $5, \underline{69}, \underline{805}$

Expanded form

$$5, \underline{69}, \underline{805} = 5,00,000 + 60,000 + 9,000 + 800 + 0 + 5$$

Value of underlined digit – a) $5, \underline{69}, \underline{805} = 60,000$
 $= 800$

b) $\underline{4}, \underline{57}, \underline{419}$

Expanded form

$$\underline{4}, \underline{57}, \underline{419} = 4,00,000 + 50,000 + 7,000 + 400 + 10 + 9$$

Value of underlined digit – b) $\underline{4}, \underline{57}, \underline{419} = 4,00,000$
 $= 7,000$

c) $\underline{1}, \underline{00}, \underline{000}$

Expanded form

$$\underline{1}, \underline{00}, \underline{000} = 1,00,000 + 0 + 0 + 0 + 0 + 0$$

Value of underlined digit = c) $\underline{1}, \underline{00}, \underline{000} = 1,00,000$
 $= 0$

d) $\underline{6}, \underline{05}, \underline{007}$

Expanded form

$$\underline{6}, \underline{05}, \underline{007} = 6,00,000 + 0 + 5,000 + 0 + 0 + 7$$

Value of underlined digit = d) $\underline{6}, \underline{05}, \underline{007} = 6,00,000$
 $= 7$

2 Use 'Arrow Cards' to represent the given numerals. Write the expanded form and value of the underlined digits in International number system.

a) $5 \underline{49}, \underline{705}$

Expanded form

$$5 \underline{49}, \underline{705} = 500,000 + 40,000 + 9,000 + 700 + 0 + 5$$

Value of underlined digit = a) $5, \underline{49}, \underline{705} = 40,000$ and 700

b) 359,418

Expanded form

$$\underline{3}59,418 = 300,000 + 50,000 + 9,000 + 400 + 10 + 8$$

Value of underlined digit = b) 359,418 = 300,000 and 9,000

c) 600,900

Expanded form

$$\underline{6}00,9\underline{00} = 600,000 + 0 + 0 + 900 + 0 + 0$$

Value of underlined digit = c) 600,900 = 600,000 and 0

d) 315,009

Expanded form

$$\underline{3}15,00\underline{9} = 300,000 + 10,000 + 5,000 + 0 + 0 + 9$$

Value of underlined digit = c) 315,009 = 300,000 and 9

Pictorial Stage

- 1 Observe the counter representations, and write the correct numerals in the Indian number system by separating periods, using commas and their number names.

a

L	TTh	Th	H	T	O
●			●●	●●●	

1,00,230

One lakh two hundred thirty

b

L	TTh	Th	H	T	O
●●●●	●●●	●●●●	●●●●	●●●●	●●

6,48,782

Six lakh, forty eight thousand, seven hundred eighty two

c

L	TTh	Th	H	T	O
●●●●	●●●		●●●●	●●●●	●

9,60,661

Nine lakh, Sixty thousand, Six hundred sixty one

2 Observe the counter representations, and write the correct numerals in the International number system by separating periods, using commas and their number names.

a

HTh	TTh	Th	H	T	O

287,954

Two hundred eighty-seven thousand, nine hundred fifty-four

b

HTh	TTh	Th	H	T	O

326,105

Three hundred twenty six thousand, one hundred five

c

HTh	TTh	Th	H	T	O

643,334

Six hundred forty three thousand, three hundred thirty four

Abstract Stage

1 Rewrite the numerals in both the International and Indian number system with proper commas.

a) 376210

Indian number – 3,76,210

International number – 376,210

b) 799999

Indian number – 7,99,999

International number – 799,999

c) 200002

Indian number – 2,00,002

International number – 200,002

d) 606066

Indian number- 6,06,066

International number – 606,066

2 Write the numerals.

- | | | |
|---|---|-----------------|
| a | three hundred forty-two thousand two hundred eleven | <u>342,211</u> |
| b | six hundred fifty-three thousand eight hundred twenty | <u>653,820</u> |
| c | four lakh fifty-three thousand five hundred nineteen | <u>453,519</u> |
| d | one lakh five | <u>1,00,005</u> |
| e | twenty-nine thousand six | <u>29,006</u> |

Think Aloud

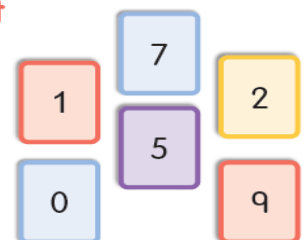
Use each card only once to make the smallest and largest 6-digit numbers.

a) What is the smallest 6-digit number you can make?

1,02,579

b) What is the largest 6-digit number you can make?

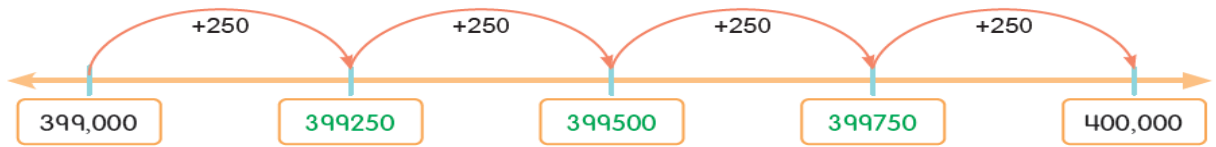
9,75,210



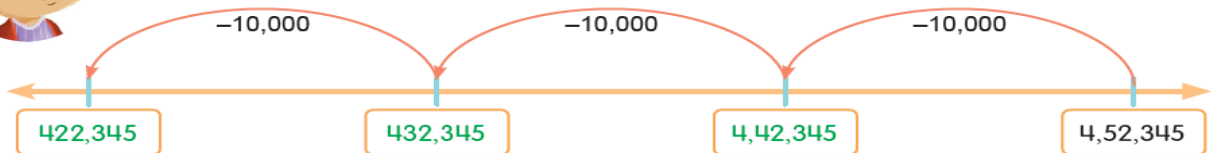


Generally, it is easier to count numbers in multiples of 10.

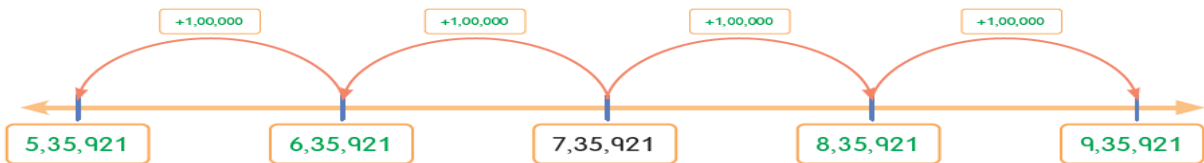
Let's complete the number sequence by counting in 250s.



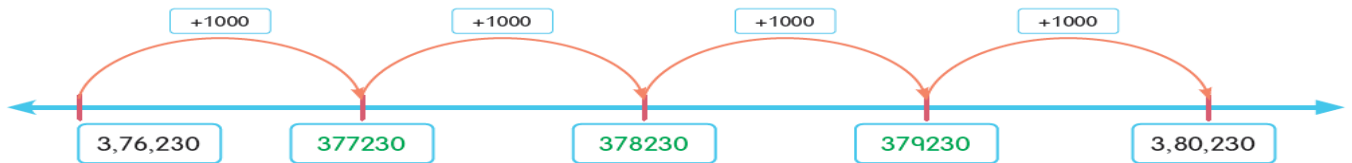
Let's count backward from 4,52,345 in 10,000s.



Complete the number sequence by counting in 1,00,000s.



Example: Complete the number sequence.



TEXTBOOK Page no. 79

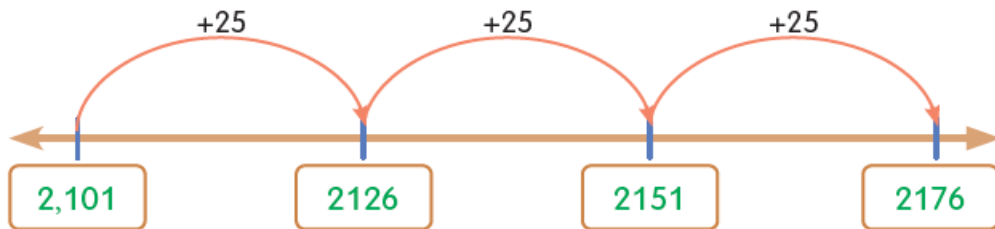
Concrete Stage

Use 'Place Value Counters', and complete the number sequences.

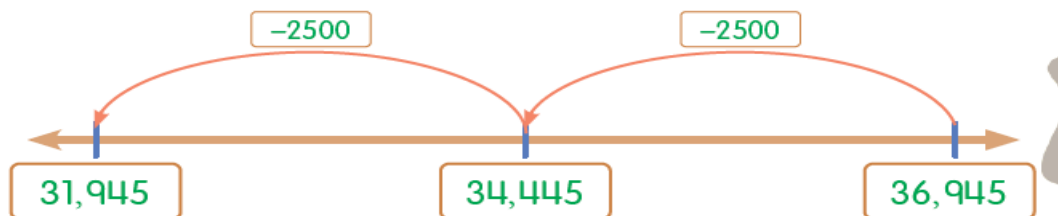
- a 2,56,742; 2,66,742 ; 2,76,742; 2,86,742 ; 2,96,742
- b 480,880; 480,780; 480,680 ; 480,580 ; 480,480
- c 66,321, 76,321; 86,321 ; 96,321 ; 1,06,321
- d 2,73,450; 2,83,450; 2,93,450; 303,450 ; 313,450 ; 323,450
- e 1,00,000; 99,900; 99,800; 99,700 ; 99,600 ; 99,500

Pictorial Stage

Write the numbers, and complete the number statements given below.



- b Kyra got 2500 bottle caps from each of her 2 friends, and now, she has 36,945 bottle caps. How many bottle caps did she have earlier?



Abstract Stage

Complete the number sequences.

- a 8,32,625; 8,42,625; 8,52,625 b 2,90,001; 3,060,001; 3,100,01
 c 6,03,554; 6,03,555; 6,03,556 d 1,43,702; 2,43,702; 3,43,702
 e What pattern did you follow to complete the sequence in part (d)? Explain with reasoning.

The pattern can be described as an increment of 1,00,000. So I decreased 100,000 to get the answer.

TEXTBOOK Page no. 82

Concrete Stage

- 1 Add or remove 'Place Value Counters' to find the numbers that make the given number statements true.

- a 4,54,789 4, 4 4, 789 b 9,98,765 9,98, 6 6 5
 c 2,76,019 2, 8 6,019 d 6,23,763 7, 2 4,256

- 2 Use 'Place Value Counters', and fill in the empty spaces.

- a Numbers in this list are arranged in ascending order.
 4,87,452 < 4, 9 7,452 < 5, 2 3, 641 < 5, 5 4,641
 b Numbers in this list are arranged in descending order.
 9,96,320 > 9, 8 6,320 > 9, 7 6,320 > 9, 5 4,983

Pictorial Stage

- a) 4,23,404 3,13,403 b) 5,40,211 3,20,430
 c) 110441 620000 d) 91001 21560

2 Match the following numbers with their correct number names.

- | | | | | |
|---|--|--|------|----------|
| a | two lakh forty thousand sixty-four | | i. | 15,990 |
| b | thirty-five thousand six hundred seventy-two | | ii. | 790,001 |
| c | fifteen thousand nine hundred ninety | | iii. | 2,40,064 |
| d | seven hundred ninety thousand one | | iv. | 68,200 |
| e | sixty-eight thousand two hundred | | v. | 35,672 |

3 Fill the missing numbers to compare the following.

- | | | | |
|---|---|---|---|
| a | $3,28,394 > 3, \underline{1} \underline{2}, 999$ | b | $7,40,983 < \underline{8}, \underline{4} \underline{6}, 383$ |
| c | $94,903 < 9 \underline{5}, \underline{6} 08$ | d | $3,30,928 > \underline{2}, \underline{3} \underline{0}, \underline{2} 99$ |
| e | $4,28,022 < \underline{5}, \underline{9} \underline{2}, \underline{8} 08$ | f | $3, \underline{9} \underline{6}, 928 > 3, 88, 999$ |
| g | $2,00,003 < 2, \underline{1} \underline{0}, \underline{0} 08$ | h | $3,33,333 > \underline{1}, 33,333$ |

4 Write True or False. Write the correct statements for the false statements.

- a The number 2,05,003 is smaller than 20,503. FALSE
Correct statement: The number 22052003 is greater than 20,503
- b $80,000 + 5,000 + 300 + 10 + 17$ is the expanded form of 8,05,317. FALSE
Correct statement: $800000 + 5000 + 300 + 10 + 7$
- c Seema wrote $5,00,000 + 8000 + 400 + 90 + 5$ as 5,84,950. FALSE
Correct statement: 508495
- d The smallest 6 digit number is 1,00,001 FALSE
Correct statement: Smallest 6 digit number is 100000

5 Write the following numerals in ascending order.

- | | | |
|---|------------------------------|-------------------------------------|
| a | 5,33,496; 4,34,967; 1,42,496 | <u>1,42,496; 4,34,967; 5,33,496</u> |
| b | 7,35,703; 3,37,307; 4,34,830 | <u>3,37,307; 4,34,830; 7,35,703</u> |
| c | 6,84,001; 6,39,501; 89,510 | <u>89,510; 6,39,501; 6,84,001</u> |
| d | 2,18,435; 8,11,003; 9,25,490 | <u>2,18,435; 8,11,003; 9,25,490</u> |
| e | 2,06,320; 8,00,999; 1,05,204 | <u>1,05,204; 2,06,320; 8,00,999</u> |

6 Write the following numerals in descending order.

- | | | | |
|---|-------------------------------------|---|-------------------------------------|
| a | <u>565,325; 464,225; 365,225</u> | b | <u>4,70,834; 4,60,982; 4,60,938</u> |
| c | <u>2,17,289; 1,07,089; 27,298</u> | d | <u>2,64,480; 2,63804; 2,63480</u> |
| e | <u>2,83,595; 1,82,595; 1,28,595</u> | | |

7 Colour the numerals represented in International number system in green and Indian number system in yellow.

- | | | | |
|----------|---------|---------|----------|
| 2,87,983 | 100,000 | 543,908 | 9,78,000 |
|----------|---------|---------|----------|

8 Write the position of 6 and its value in the following numbers. (Remember to observe the periods.)

- | | | |
|---|----------|---|
| a | 8,63,001 | The digit 6 is in <u>Ten thousand</u> place and has a value of <u>60000</u> . |
| b | 6,99,450 | The digit 6 is in <u>Lakh</u> place and has a value of <u>600000</u> . |
| c | 7,86,288 | The digit 6 is in <u>Thousand</u> place and has a value of <u>6000</u> . |
| d | 4,25,601 | The digit 6 is in <u>Hundred</u> place and has a value of <u>600</u> . |

- 9 Write the following numbers in expanded form.
- a $200000+40000+7000+30+5$ b $500000+90000+500+50$
 c $800000+30000+7000+400+3$ d $100000 + 200+60+4$
 e $300000+20000+1$ f $900000+10000+2000+100+9$
 g $600000+60000+6000+20+5$ h $200000+10000+1000+600+50 +8$
 i $700000+60000+5000+900+80+7$

10 Form the greatest numbers using the given digits only once.

- | | | | | | |
|---|------------------|---------------------------------------|---|------------------|---------------------------------------|
| a | 8, 1, 3, 7, 9, 5 | <input type="text" value="9,87,531"/> | b | 6, 5, 0, 1, 2, 4 | <input type="text" value="6,54,210"/> |
| c | 2, 0, 8, 4, 6 | <input type="text" value="86,420"/> | d | 7, 0, 9, 3, 6, 2 | <input type="text" value="9,76,320"/> |
| e | 1, 5, 6, 9, 3, 7 | <input type="text" value="9,76,531"/> | f | 5, 1, 6, 3, 7, 2 | <input type="text" value="76,521"/> |
| g | 2, 3, 8, 9, 4, 7 | <input type="text" value="9,87,432"/> | h | 5, 3, 0, 9, 4, 6 | <input type="text" value="9,65,430"/> |

Mental Maths

1 Fill in the blanks.

- a The smallest 6-digit number is 100000.
- b The greatest 6-digit number is 999999.
- c If you add 1 to the greatest 4-digit number, you get the smallest 5 digit number.
- d If you add 1 to the greatest 5-digit number, you get the smallest 6 digit number.

2 Compare the following numbers and fill in the boxes with > or < symbols.

- | | | | | | | | |
|---|----------|-----------------------------------|----------|---|----------|-----------------------------------|----------|
| a | 4909 | <input type="text" value="<"/> | 38,909 | b | 78,909 | <input type="text" value="<"/> | 3,64,379 |
| c | 600,090 | <input type="text" value=">"/> | 600,009 | d | 1,73,925 | <input type="text" value=">"/> | 1,72,884 |
| e | 3,42,606 | <input type="text" value=">"/> | 2,42,706 | f | 736,396 | <input type="text" value=">"/> | 701,396 |
| g | 220,346 | <input type="text" value=">"/> | 202,345 | h | 8,56,209 | <input type="text" value=">"/> | 3,56,209 |
| i | 6,78,432 | <input type="text" value=">"/> | 6,78,422 | j | 1,19,532 | <input type="text" value="<"/> | 1,20,345 |

POST ACTIVITY: - Write postal codes of your area and area of your 5 relatives. Do you find any similarities or differences in these postal codes? What are those?

Subject Teacher

HOD

COORDINATOR

PRINCIPAL

