

1 Large Numbers



| 1. | Write | the fol | lowing | numbers | in words. | |
|----|-------|---------|--------|---------|-----------|--|
|----|-------|---------|--------|---------|-----------|--|

2. Write the following number names in numerals.

3. Write the following numbers in expanded form.

4-digit numbers and above

A number that has four digits is a 4-digit number.

Example: 1234, 4567, 7890, 1935

A number that has five digits is a 5-digit number.

Example: 16379, 56541, 87490, 42338

Similarly, a number that has six digits is a 6-digit number.

A number that has seven digits is a 7-digit number.

Largest 4-digit number

| Th | Н | T | 0 |
|----|---|---|---|
| 9 | 9 | 9 | 9 |

= nine thousand nine hundred ninety-nine

Smallest 5-digit number = 9999 + 1 = 10000

| TTh | Th | H | T | 0 |
|-----|----|---|---|---|
| 1 | 0 | 0 | 0 | 0 |

= ten thousand

Largest 5-digit number

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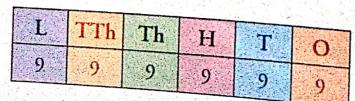
= ninety-nine thousand nine hundred ninety-nine

Smallest 6-digit number = 99999 + 1 = 100000

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= one lakh

Largest 6-digit number



= nine lakh ninety-nine thousand nine hundred ninety-nine

Exercise 1

- 1. Express the smallest five-digit number in figures and words.
- 2. Express the largest seven-digit number in figures and words.
- 3. Express the smallest eight-digit number in figures and words.
- 4. Write the following numbers in words:
 - a) 10,207
- b) 98,237
- c) 87,435
- d) 2,47,890

- e) 4,70,357
- f) 5,96,821
- g) 9,75,431
- h) 8,04,627

Face value and place value

Face value: The value of a digit in any number is the face value of the digit.

Example: Let us take the number 67890.

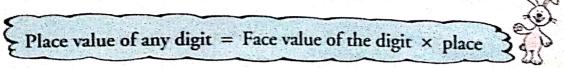
- The face value of 6 is 6 in the number 67890.
- The face value of 8 is 8 in the number 67890.

Place value: The place value of a digit depends upon the place it occupies in the number.

- ❖ If the digit is placed in the ones place, the place value will be the digit × 1.
- ❖ If the digit is placed in the tens place, the place value will be the digit × 10.
- ❖ If the digit is placed in the hundreds place, the place value will be the digit × 100.
- rianglet If the digit is placed in the thousands place, the place value will be the digit imes 1000.

And so on.

So, we can say,



Example: Find the place value of 7 in 8,97,624 by making a place value chart.

| L | TTh | Th | HT | 0 |
|---|-----|----|-----|---|
| 8 | 9 | 7 | 6 2 | 4 |

We observe that 7 is placed in the thousands place.

Therefore, the place value of $7 = 7 \times 1000 = 7000$



1. Write the face value and the place value of the digits in colour.

| S. No | Digit | Face value | Place value |
|-------|-------|------------|--|
| a) | 75391 | | |
| b) | 19762 | | |
| c) | 27833 | | |
| d) | 13286 | | |
| e) | 58923 | | and the second s |

- 2. Arrange the following numbers in the place value chart.
 - a) 56, 021
- b) 34, 123
- 98, 909
- 12, 110
- 3. Mark the periods by placing the commas and write the numbers in words.
 - a) 56398 b) 23141
- c) 918171
- d) 75489
- e) 392754
- 4. Answer the following questions for the number 953420.
 - a) The place value of the digit 5 is _____
 - b) The place value of the digit 3 is _____
 - c) The digit whose place value is 50000 is _____
- 5. Name the place value which comes after ten thousand.

Writing numbers

Numbers can be written in three ways i.e., expanded form, word form, and standard form.

Expanded form

Writing a number as the sum of the place values of its digits is called the expanded

Example: Write the expanded form of the number 3,45,678.

Step 1: Make the place value chart.

| L | TTh | Th | H | T | 0 |
|---|-----|----|---|---|---|
| 3 | 4 | 5 | 6 | 7 | 8 |

From the place value chart we can write:

$$3,45,678 = 3 \times 100000 + 4 \times 10000 + 5 \times 1000 + 6 \times 100 + 7 \times 10 + 8 \times 1$$

= $300000 + 40000 + 5000 + 600 + 70 + 8$

Standard or short form

Standard form or short form is the normal way of writing a number.

Example: Write the following in short form.

$$7 \times 100000 + 9 \times 10000 + 3 \times 1000 + 6 \times 100 + 4 \times 10 + 1 \times 1$$

= $700000 + 90000 + 3000 + 600 + 40 + 1 = 793641$

Think and Answer

For any 5-digit number, how many 0s will be there if the expanded form and the short form of the number is same.

Life Skills

EXPERIENTIAL LEARNING

Always remember the 8-digit landline number of your house.

Exercise 3

- 1. Write the expanded form of the following numbers.
 - a) 78098
- b) 421990
- c) 107092
- d) 8877341

- 2. Write the short form of the following.
 - a) $4 \times 100000 + 4 \times 10000 + 4 \times 1000 + 4 \times 100 + 4 \times 10 + 4 \times 1 =$
 - b) $6 \times 100000 + 7 \times 10000 + 1 \times 1000 + 4 \times 100 + 9 \times 10 + 4 \times 1 =$
 - c) $3 \times 100000 + 0 \times 10000 + 1 \times 1000 + 7 \times 100 + 3 \times 10 + 7 \times 1 =$
 - d) $2 \times 100000 + 5 \times 10000 + 2 \times 1000 + 3 \times 100 + 2 \times 10 + 5 \times 1 =$

Comparing numbers

Example: Compare the numbers 93456 and 7534.

The number with more digits is greater.

93456 → has 5 digits

7534 → has 4 digits

So 93456 > 7534.

Example: Compare the 6-digit numbers 789102 and 780201. Also form the largest number with the given digits.

789102 and 780201

- * Both the numbers have the same number of digits.
- * Work out the place value charts for both the numbers.
- Compare the digits from the left.
- Find the place where the digits are different, the number with the greater digit is the greater one.

| - | L | TTh | Th | H | T | 0 |
|---|---|-----|----|---|---|-----|
| | 7 | 8 | 9 | 1 | 0 | 2 |
| | 7 | 8 | 0 | 2 | 0 | 1.0 |

- Start from the left.
- The digit in the lakhs place in both the numbers is 7 and same.
- The digit in the ten thousands place in both the numbers is
 8 and same.
- ❖ The digits in the thousands place are unequal. They are 9 and 0. Since 9 is greater than 0, so 789102 > 780201.

Largest number: Start with the largest digit and go to the smaller digit. We get the number 98642. So, 98642 is the largest number formed from the given digits.

Think and Answer

In a 3-digit number, the second digit is four times as big as the third digit, while the first digit is three less than the second digit. What is the number?



Maths Tip

While forming a number from digits, one of which is 0, never start the number with 0.

Ordering numbers

Ascending order

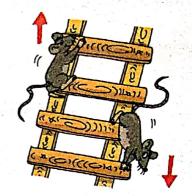
When we arrange the numbers from the smallest to the largest, it is called the ascending order.

Example: 1768, 29531, 38786, 55673 are in ascending order.

Descending order

When we arrange the numbers from the largest to the smallest, it is called the descending order.

Example: 78935, 58673, 8975, 4831 are in descending order.



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Activity

Write the year of birth of all your family members along with yours. Arrange these years in the ascending order.

Predecessor

Predecessor of any number is the number which comes just before the number.

Example: Predecessor of 843270 = 843270 - 1 = 843269

Therefore, predecessor = number -1.

Successor

Successor of any number is the number which comes just after the number.

Example: Successor of 678230 = 678230 + 1 = 678231

Therefore, successor = number + 1.

Forming numbers

Smallest and largest numbers

Let us form the smallest and the largest number using the digits 2, 9, 6, 4, 8.

Smallest number

Start with the least digit and go to the larger digit. We get the number 24689. So, 24689 is the smallest number formed from the given digits.

Largest number

Start with the largest digit and go to the smaller digit. We get the number 98642. So, 98642 is the largest number formed from the given digit.



| 1. Write '<' or '>' in the box | xes | xes |
|--------------------------------|-----|-----|
|--------------------------------|-----|-----|

| a) | 82765 | | 97450 | b) | 69475 | 5824 |
|----|-------|--|-------|----|-------|------|
| c) | 9876 | A STATE OF THE STA | 9783 | d) | 45789 | 5962 |

2. Arrange the numbers in ascending order.

| a) | 2478, 2461, 2499, 2489, 2479, 2469 | ECHECATE PARALLEL MINERAL MANAGEMENT CONTRACTOR MANAGEMENT CONTRAC | |
|----|------------------------------------|--|--|
| b) | 3214, 1234, 4321, 1013, 1004, 0041 | | |

3. Circle the largest number and tick () the smallest number.

| a) | 69534 | 73821 | 94786 | 67900 |
|------------|--------|--------|--------|--------|
| b) | 85396 | 69452 | 49875 | 12312 |
| c) | 100901 | 001123 | 123978 | 900080 |

4. Arrange the numbers in descending order.

| a) 9876, 9867, 9786, 6798, 7689, 8769 | |
|---------------------------------------|--|
| b) 4456, 5793, 8832, 2311, 2752, 7558 | |
| c) 45678, 45089, 45009, 45110, 45900 | |

5. Write the predecessor and the successor of the following numbers.

| Predecessor | Number | Successor |
|-------------|--------|-----------|
| | 341098 | |
| | 908000 | |
| | 132341 | |

- 1. Write '<' or '>' in the boxes.
 - a) 1234

5678

b) 5923

9874

EXPERIENTIAL LEARNING

2. Arrange the numbers in ascending order.

1809, 1980, 1889, 1678, 1876, 1967

3. Write the predecessor and the successor of the following numbers.

| Predecessor | Number | Successor |
|-------------|--------|-----------|
| | 603089 | |

Activity

- 1. Each student will take four dice of different colour.
- 2. The place value is assigned to each die.
- 3. Each die represents thousands, hundreds, tens and ones.
- 4. Each student will throw all the dice together.
- 5. Tell the students to form the number and write the numbers in words and figures.
- 6. Repeat this activity four times.
- 7. Write all the numbers in ascending and descending order.

| Numbers | * ** | | |
|------------------|------|----|--|
| Ascending order | | | |
| Descending order | | 3. | |

Rounding numbers

Pooja asked her friend Neha, 'How many rajma beans are there in the bowl?' Neha replied 1178. Pooja said the rajma beans are about 1200.

We use rounding when we talk about how many. This means not exactly 1178 or not exactly 1200 but a number which is very close to the actual number.

- * Rounding makes numbers that are easier to work with in your head.
- Rounded numbers are only approximate numbers.
- * An exact answer generally can not be obtained using rounded numbers.

Use rounding to get an answer that is close but that need not be exact.



Rounding off

1. Rounding off to the nearest 10

- a) Underline the digit in the tens place.
- b) Check the digit placed in the ones place.
- c) If the digit in the ones place is 5 or more than 5, then the number is rounded off to next tens.
- d) If the digit in the ones place is less than 5, the digit in the tens place remains as it is but the digit in the ones place becomes 0.

Example: Round off the number 26724 to the nearest 10. Follow the above rules.

- ❖ Underline the digit in the tens place → 26724
- ❖ Check the digit in the ones place → 4
- ❖ The digit is less than 5. (4 < 5)
- ❖ So, the digit in the tens place remains same i.e., 2, but the digit in the ones place becomes 0. So 24 becomes 20.

Hence, the rounded off number is \longrightarrow 26720.

Example: Round off the number 972567 to the nearest 10. Follow the rules.

- Underline the digit in the tens place \longrightarrow 9725<u>6</u>7
- ❖ Check the digit in the ones place
- The digit is greater than 5. (7 > 5)
- \bullet So, 67 is round off the next ten \longrightarrow 70

Hence, the rounded off number is → 972570

2. Rounding off to the nearest 100

- a) Underline the digit in the hundreds place.
- b) Check the digits to the right of the digit in the hundreds place.
- c) If it is 50 or more, the number is rounded off to the next hundred.
- d) If it is less than 50, the hundreds digit does not change but the digits in the tens and ones places become 0.

Example: Round off the number 3785345 to the nearest 100. Follow the rules.

- Underline the digit in the hundreds place --> 3785345
- The digits to the right of the digit in the hundreds place make 45. (45 < 50)</p>
- So the digit in the hundreds place does not change. It remains 3, but the digits in the tens place and ones place become 0.
- * Therefore, the number 3785345 is rounded off to 3785300.

Example: Round off the number 5678498 to the nearest 100.

- The digit in the hundreds place is 4.
- The digits to the right of 4 make 98. (98 > 50)
- So 498 is rounded off to 500.
- Therefore, the number 5678498 is round off to 5678500.

3. Rounding off to the nearest 1000

- Underline the digit in the thousands place.
- b) Check the digits to the right of the digit in the thousands place.
- If it is 500 or more, the number is rounded off to the next thousand.
- d) If it is less than 500, the digit in the thousands place does not change but the digits in the hundreds, tens, and ones places become 0.

Example: Round off the number 1234369 to the nearest 1000.

- Digit in the thousands place is 4.
- \bullet Digits to the right of 4 \longrightarrow 369. (369 < 500)
- The digit in the thousands place does not change. It remains 4 and all the digits to the right change to 0.
- So, the number is rounded off to 1234000.

Example: Round off the number 1345786 to the nearest 1000.

- Digit in the thousands place is 5.
- Digits to the right side of 5 \longrightarrow 786. (786 > 500)
- Digit 5 becomes 6 and other digits to the right become 0.
- ❖ The number 1345786 is rounded off to 1346000.

Exercise 5

- 1. Round off the following numbers to the nearest 10.
 - a) 2657
- b) 4589
- c) 23679
- d) 14578
- e) 53578
- 2. Round off the following numbers to the nearest 100.
 - a) 3478
- b) 2559
- c) 18566
- d) 23569
- e) 89236
- 3. Round off the following numbers to the nearest 1000.
 - a) 23678 b) 10945
- c) 28196
- d) 45238
- e) 23567

Indian and international system of numeration

We use the Indian place value system of numeration in India, Most other countries use International system of numeration, Both the systems—Indian and International—are based on the Indo-Arabic system of place values,

| | Indian system of numeration | | International system of numeration |
|-----|--|-----|---------------------------------------|
| | & The was noted by Anlaces | 111 | The ones period has 3 places. |
| | * The times period has 5 places. * Except ones period, all the periods have | n | All periods have 3 places: |
| - 1 | 2 places | - | |
| - | The places after thousands are called | rļa | The places after thousands are called |
| | 'Lakha', 'Crorea' etc. | 1.7 | 'Millions', 'Billions' etc. |

Indian place value chart

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Number name: eight lakh twenty-seven thousand four hundred twenty-nine

Example: Write the number name for 459452.

Mark periods first, then places

Put 's' between periods

. No commas in the number name

No 'and' in the number name

Never use 's' with terms like hundred, thousand and lakh while writing a number name.

Maths Tip

Number name: four lakh fifty-nine thousand four hundred fifty-two

International place value chart

| The state of the s | The state of the s |
|--|--|
| Millions | Thousands Ones |
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| Total Carlotte Control of the Contro | A STATE OF THE PARTY OF THE PAR |
| The street will be a server to the server of | the second secon |

Number namer eight hundred twenty-seven thousand four hundred twenty-nine Example: Write the number name for 659452.

Mark the periods and write short forms

- Place the digits from right to left
- Put commas between periods
- No 'and' in the number name

Number name: six hundred fifty-nine thousand four hundred fifty-two



- 1. Write the digits of the number in the Indian place value chart and write the number names.
 - a) 230456
- b) 329067
- c) 745612
- d) 382314
- 2. Write the digits of the number in the International place value chart and write the number names.
 - a) 249231
- b) 751084
- c) 898742
- d) 432329

- 3. Write in figures.
 - a) seven lakh fourteen thousand one hundred thirty-two
 - b) three lakh seventy-five thousand nine hundred eight
 - c) five hundred twenty thousand two hundred twenty-one
 - d) four hundred thousand nineteen
 - e) four hundred thousand four hundred one

Roman numerals

The Romans developed symbols to write numbers from the letters of the alphabet. These symbols are known as Roman numerals.

Numeral is a script used for writing a number. It is the language of writing a number.

| Number | Nume | merals | | |
|--------|-------------|--------|--|--|
| 000 | Indo-Arabic | Roman | | |
| 000 | 6 | VI | | |

The Romans used only seven numerals to represent a number.

| Roman numerals | I | V | X | L | C | | |
|-------------------|-------|---------|----|----|-----|------------|------|
| Indo-Arabic numer | als l | 5 | 10 | 50 | 100 | 500 | M |
| | | A VALUE | | | 100 | DUC | 1000 |

Rules:

- 1. There is no symbol for '0'.
- 2. All numbers are formed by the combination of the above seven symbols.
- 3. I, X, C and M can be repeated thrice.

Example:

III = 3

XXX = 30

- 4. V, L and D are never repeated.
- 5. V is never written to the left of X.
- 6. A smaller symbol written on the left to the bigger symbol means we subtract the value of the symbol number from the bigger symbol.

Example:

IV = 5 - 1 = 4

IX = 10 - 1 = 9

XL = 50 - 10 = 40

7. A smaller symbol right to the bigger symbol means add the value of the smaller symbol to the value of the bigger.

Example:

VI = 5 + 1 = 6

XI = 10 + 1 = 11

LX = 50 + 10 = 60

- 8. I can be subtracted from V and X only once.
- 9. X can be subtracted from L, and C only once.

Example:

$$21 = XX + I$$

18 = X + VIII

$$19 = X + IX$$

47 = XL + VII

$$60 = L + X$$

96 = XC + VI

$$400 = D - C$$

800 = D + CCC

Project

EXPERIENTIAL LEARNING

Use the Internet to find the history of Roman numbers.

Exercise 7

1. Write the Indo-Arabic numerals for the following.

a) XX

- b) LX
- c) CM
- d) CD
- e) XL

2. Write in Roman numerals.



- a) 70
- b) 33
- c) 25
- d) 90
- e) 80

- f) 65
- g) 200
- h) 600
- 900
- i) 700

| 3. | Write the sum in Roman numerals. |
|-----|--|
| | a) $C + XC$ b) $XXI + C$ c) $XX + VIII$ d) $M + D$ |
| 4. | Write the year 1990 in Roman numerals. |
| 5. | Write your date of birth in Roman numerals. |
| 6. | Write the number names for the following. |
| | a) 5678 b) 8947 c) 7245 d) 2478 |
| 7. | Write the following numbers in figures. |
| | a) forty-two thousand four hundred forty-five |
| | b) ninety thousand nine |
| | c) three lakh thirty thousand thirty-three |
| | d) two lakh twenty-four thousand one |
| 8. | Write the numbers by interchanging the digits at thousands place and ones place. |
| | a) 34445 b) 12345 c) 67453 d) 67981 |
| 9. | Arrange the numbers in a place value chart. |
| | a) 30709 b) 23008 c) 24344 d) 60002 |
| 10. | Write the place value of the coloured digits. |
| | a) 66678 b) 87879 c) 20305 d) 76543 |
| 11. | Write the sum of the place values of '4' in the following numbers. |
| | a) 24345 b) 56448 c) 43241 d) 123454 |
| 12. | Write the difference of the place values of '5' in the numbers. |
| | a) 15645 b) 85354 c) 25345 d) 53452 |
| 13. | Round off the numbers to the nearest tens. |
| | a) 5,678 b) 2,304 |
| | BB 14명하는 사람들은 12명 14명 10명 10명 10명 12명 12명 12명 12명 12명 12명 12명 12명 12명 12 |

| | Round off the numbers to the | | grafted to the second special |
|-----|---|-----------------------------|--|
| | a) 56,389 | b) 89,123 _— | |
| 15. | Round off the numbers to th | e nearest thousands. | |
| | a) 34,234 | b) 10,101 | |
| 16. | Round off the numbers to th | e nearest ten thousands. | |
| | a) 67,809 | b) 14,441 | |
| 17. | Write the predecessor and th | e successor of the followi | ng. |
| | a) 478700 | b) 567899 | |
| | c) 645688 | d) 759999 | |
| | Express the number names for system of numerations. | or the following in the Inc | dian and Internation |
| | a) 572486 | b) 790867 | |
| | c) 298057 | d) 86254 | |
| 19. | Match the following. | | |
| | | | · Production and the second se |
| | a) two lakh twenty-five thou | sand four hundred five | i) 820002 |
| | a) two lakh twenty-five thou b) five lakh thirteen thousan | | i) 820002 ii) 990001 |
| | | d three hundred | |
| | b) five lakh thirteen thousan | d three hundred d two | ii) 990001 |
| | b) five lakh thirteen thousan c) eight lakh twenty thousan | d three hundred d two three | ii) 990001 iii) 110004 |
| | b) five lakh thirteen thousanc) eight lakh twenty thousand) seven lakh four thousand | d three hundred d two three | ii) 990001iii) 110004iv) 513300 |
| | b) five lakh thirteen thousanc) eight lakh twenty thousand) seven lakh four thousande) one lakh ten thousand fou | d three hundred d two three | ii) 990001iii) 110004iv) 513300v) 704003 |

Think and Answer

Who am I?

- I am a 4-digit number.
- Thousands place is double the ones place.
- Tens place is one more than the hundreds place.
- Sum of all the digits is 13.



Mental Maths

EXPERIENTIAL LEARNING

- 1. In each of the following, there is one incorrect number. Find the incorrect number and circle it.
 - a) Count in tens: 1400, 1500, 1650, 1700, 1800
 - b) Count in hundreds: 13457, 13557, 13657, 13477, 13857
 - c) Count in thousands: 38902, 39802, 40902, 41902, 42902
 - d) Count in ten thousands: 44444, 54444, 64444, 77777, 84444
- 2. Which digit in the number 98462 will you replace by the digit 7 to get a number greater than this number? Also, write the number.
- 3. Which digit is there in the hundreds place in the short form of the number 80000 + 7000 + 60 + 5?
- 4. Which will be greater? 5-digit smallest number or 4-digit greatest number
- 5. Write the successor of the number obtained when 196 is rounded to the nearest 10.
- 6. Write < or > on the blanks.
 - a) XVI XIV
 - b) IV VI.
 - c) CM M



Tick (√) the correct option.

| 1. | 70 lakhs = | millions. | | | | |
|------|---|------------------------------|-----------------------|-------------------|---------|--------------------|
| | a) 70 | b) 700 | c) - ' | 0 | d) | 7 |
| 2. | The greatest 5-digit | number with all diff | erent di | gits is | | |
| | a) 98765 | b) 56789 | e) | 99875 | d) | 90123 |
| 3, | The place value of th | ne digit 5 in 652,096 | is is | | | |
| | a) thousands | | b) | ten thousands | | |
| | e) 5 thousands | | d) | 5 ten thousands | | |
| | The difference betw number is | een the largest 6-dig | it numl | er and the smalle | st 6-c | ligit |
| | a) 888888 | | b) | 899999 | | |
| | c) 900000 | | d) | none of these | | |
| 5. | 75,959 rounded off | to the nearest thous | ands giv | res . | | |
| | a) 76,000 | b) 75,000 | c) | 75,900 | d) | 70,000 |
| 6. | The year 2021 in R | oman numerals is | | | | |
| | a) MMCDVII | | c) | MCXVII | (d) | IIVII |
| 7. | 1 less than the smal | | is | | | 计机等 法 |
| | a) 100001 | b) 99999 | c) | 90000 | d) | 9999 |
| 8. | The sum of the place | ce values of the two | 3s in 39 | 6347 is | | |
| | a) 303000 | b) 300300 | c) | 300000 | d) | Same of the Same |
| 9. | Five hundred seven million one hundred seventeen thousand one is written as | | | | | |
| | a) 517,117,011 | | b) | 507,117,001 | | |
| | c) 507,117,100 | | d) | 507,117,010 | | |
| 10. | The number of zero | oes in 10 lakh is | and the second second | | | |
| | a) 4 | b) 5 | c) | 6 | d) | 7 |
| 5 12 | | 소리 전쟁을 열리하다 하는 것이 그 보는 것이 생각 | | | 1 10000 | strike i il jakoka |