## Collins



## Maths <br> Zone 3 <br> Updated Edition

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## Preface

Maths Zone (Updated Edition) is a series of eight books for Classes 1 to 8. The series conforms to the objectives outlined in National Curriculum Framework. The updated edition of Maths Zone, trying to make a difference with its new features, incorporates the latest requirements across various boards. With its activity-oriented approach, the series aims to inculcate lateral thinking, analytical, research and deduction skills in students, thus urging them to explore beyond the boundaries of textual knowledge.

Based on the NCERT syllabus, the series follows a coherent and structured approach. It provides a seamless continuity in the Maths curriculum for classes 1 to 8, laying emphasis on developing problem-solving skills.

The series has been updated in view of the extensive feedback received from the user schools and experienced teachers. Wherever necessary, content has been simplified to cater to the needs of all kinds of learners in a classroom.

## Key Features

Mental Maths to help practise calculation skills and deductive reasoning
Cross-curricular Links (Classes 1 to 5) integrate knowledge across subjects
Exercises after each topic and Revision Exercises at the end of each chapter for a comprehensive review of the concepts
Summary (Classes 6 to 8) gives a snapshot of the chapter for quick recapitulation
Maths Lab Activity to test skills of investigation, observation and deduction
Worksheets to reinforce practice with fun exercises
Consolidated Practice Worksheets and Reasoning Worksheet at the end of the book for further practice
Latest International Mathematics Olympiad paper to help students prepare for competitive exams

Maths Tales (Classes 1 to 5) at the end of the book give colourful cartoon spreads
Vedic Maths (Classes 3 to 8) to master shortcut techniques which aid in faster calculations Poster, at the end as a pull-out, for a quick revision of important points and formulae
Remember, Common Errors, Challenge and Projects are a few other features included in the books.

Four assessment papers and two comprehensive assessment papers have been given at the end of each book, in addition to the exercises within and at the end of each chapter.
In line with the CBSE guidelines, evaluation features along with the tools of assessment have been provided extensively to the teachers and learners in a well-integrated manner.
We would like to take this opportunity to thank all the teachers who reviewed the books and provided their valuable feedback. Special thanks to Ms Shobha P Nair, Toc H Public School, Ernakulam; Ms Sangeetha S and Ms Manju R, SBOA School, Chennai, for giving their suggestions, which helped in improving the quality of the content.
Feedback, valuable comments and suggestions from the users are welcome.

## Key Features

## Cross-curricular Link: What is the difference in the meaning of the words 'remainder' and 'reminder'? <br> 




## Contents

1. Numbers up to 10,000 ..... 7
Maths Lab Activity/Worksheet ..... 28/29
2. Addition of Numbers ..... 30
Maths Lab Activity/Worksheet ..... 42/43
3. Subtraction of Numbers ..... 44
Maths Lab Activity/Worksheet ..... 58/59
4. Multiplication of Numbers ..... 60
Maths Lab Activity ..... 78
5. Long Division ..... 79
Worksheet ..... 92
6. More on Long Division ..... 93
Maths Lab Activity/Worksheet ..... 109/110
7. Fractions ..... 111
Maths Lab Activity/Worksheet ..... 131/132
8. Measurements ..... 133
Maths Lab Activity ..... 144
9. Time ..... 145
Worksheet ..... 155
10. Money ..... 156
Maths Lab Activity ..... 165
11. Geometry ..... 166
Maths Lab Activity/Worksheet ..... 175/176
12. Patterns ..... 177
Worksheet ..... 181
13. Data Handling ..... 182
Maths Lab Activity/Worksheet ..... 191/192
14. Assessments 1-4 ..... 193
15. Comprehensive Assessments 1 and 2 ..... 201
16. International Mathematics Olympiad Paper ..... 205
17. Answers ..... 213
18. Practice Worksheets and Answers ..... 220
19. Vedic Maths ..... 235
20. Maths Tales: A Journey with Time ..... 236
21. Reasoning Worksheet ..... 238

## Numbers up to 10,000

## Learning Objectives

- To read, write and expand 4-digit numbers
- To compare 4-digit numbers
- To round off numbers to the nearest 10 and 100


## Let's Get Started

We have seen how to represent 3-digit numbers using their place values of hundreds, tens and ones on an abacus tool.

The number corresponding to the representation shown here is 243 .

Expanded form: $243=200+40+3$
Number name: Two hundred forty-three


## Reading a 3-digit number

1. Read the number in the hundreds places.
2. Then, read the number in the tens and ones places together.

## INTRODUCTION TO 4-DIGIT NUMBERS

You know that the greatest 3-digit number is 999.
Which number comes after 999 ?
Recall that you added 1 to 99 to get 100. Similarly, add 1 to 999 to get the next number.

The number 999 has 9 hundreds, 9 tens and 9 ones as shown below.

9 hundreds

9 tens
IIIII

IIII
9 ones

Add one loose stick to the representation. Now, count the number of hundreds, tens and ones.



10 tens


10 hundreds

10 hundreds are bundled into a group and it is known as one thousand.


Thousands place value is written to the left of hundreds place.

| Naming of thousands |  |  |  |  |  |
| :--- | :--- | :--- | :--- | ---: | :--- |
| 1000 | One thousand | 5000 | Five thousand | 9000 | Nine thousand |
| 2000 | Two thousand | 6000 | Six thousand | 10000 | Ten thousand |
| 3000 | Three thousand | 7000 | Seven thousand |  |  |
| 4000 | Four thousand | 8000 | Eight thousand |  |  |

## PLACE VALUE AND FACE VALUE

The place value of a digit in a number is the digit multiplied by its place.
Write the place value of the digits in the number 4583.
The place value of 4 in 4583 is 4000 . $\qquad$
The place value of 5 in 4583 is 500 .
The place value of 8 in 4583 is 80 .

| Th | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{O}$ |
| :---: | :---: | :---: | :---: |
| 4 | 5 | 8 | 3 |
| $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ |
| 4000 | 500 | 80 | 3 |

The place value of 3 in 4583 is 3 .
The face value is the actual value of the digit in a number.
For example, in the number 2571, the face value of 2 is 2 . Similarly, the face value of 7 is 7.

## Exercise 1.1

1. Write the place value of the underlined digits.
(a) 1846
(b) 2001
(c) $37 \underline{3} 4$
(d) 5469
(e) 6890
(f) $77 \underline{7} 0$
$\qquad$
(g) 9215
(h) 4458
(i) $\underline{\mathbf{7}} 770$ $\qquad$
2. Fill in the following tables.

| (a) | Th | H | T | 0 | (b) | Th | H | T | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 5 | 2 | 4 | 9 |  | 9 | 1 | 5 | 4 |
| $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$ |  |  |  |  | $\downarrow$ v $\downarrow$, |  |  |  |  |
| Place Value |  |  |  |  | Place Value |  |  |  |  |
| Face Value |  |  |  |  | Face Value |  |  |  |  |

## Naming a 4-digit number

Let us write the number corresponding to the following representation. Count the number of thousands, hundreds, tens and ones.


1 thousand


4 hundreds


5 tens
Th H T O
$\begin{array}{llll}1 & 4 & 5 & 3\end{array}$
Number: 1453
Number name: One thousand four hundred fifty-three
ones places together, that is, fifty-three.
First read the number in thousands place, that is, one thousand.

Next, read the number in hundreds place, that is, four hundred.

Then, read the number in tens and Place value of each digit in the number is as follows:

| Th | H | T | $\mathbf{O}$ |
| :---: | :---: | :---: | :---: |
| 1 | 4 | 5 | 3 |
| $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ |
| 1000 | 400 | 50 | 3 |

Expanded form: $1000+400+50+3$

Consider another representation. Let us write the number corresponding to it.


Observe that there are 2 thousands, 6 hundreds, 3 tens and 6 ones.

Number: 2636
Number name: Two thousand six hundred thirty-six
Expanded form: $2000+600+30+6$

Let us represent 4-digit numbers using abacus.
Consider the representation of the number 4253.
It has four thousands, two hundreds, five tens and three ones.
Number: 4253
Number name: Four thousand two hundred fifty-three
Expanded form: $4000+200+50+3$

Digit at hundreds
place in the left
abacus is 0.
Digit at hundreds
place in the left
abacus is 0.
Digit at hundreds
place in the left
abacus is 0.


$$
3031=3000+30+1
$$

Three thousand thirty-one



$$
4401=4000+400+1
$$

Four thousand four hundred one

## FACT FILE

Abacus is a counting tool which was used in Japan for calculations in olden days.

## Exercise 1.2

Write the numbers corresponding to the following representations. Also, write them in the expanded form.
(a)

(b)

$\qquad$
$\qquad$
$\qquad$

(d)


Represent the following numbers on the abacus.


3 Write the numbers corresponding to the expanded forms given.
(a) $1000+800+20+1=$ $\qquad$ (b) $5000+400+80+6=$ $\qquad$
(c) $8000+900+40+3=$ $\qquad$ (d) $3000+70+5=$ $\qquad$
(e) $9000+200+8=$ $\qquad$ (f) $6000+200=$ $\qquad$
(4) Identify the numbers given in the following sentences and write their number names.
(a) Distance between Bangalore and Delhi is 2130 kilometres.

Number name: $\qquad$
(b) Mohandas Karamchand Gandhi was born in the year 1869 and died in the year 1948.

Number name: $\qquad$
$\qquad$
$\qquad$

Number name: $\qquad$
$\qquad$
$\qquad$
(c) Mount Everest is the highest mountain in the world and its peak is 8848 metres above the sea level.

Number name: $\qquad$
$\qquad$
$\qquad$
(d) The river Nile is the longest river in the world and its length is 6853 kilometres.

Number name: $\qquad$
$\qquad$
$\qquad$

## COMPARISON OF NUMBERS

Recall that to compare two numbers, we use the following symbols:


Also, recall the rules for comparing 3-digit numbers.
Rule 1: Compare the digits at the hundreds place. The number with the greater digit at the hundreds place is bigger than the other number.

Rule 2: Compare the digits at the tens place if the digits at the hundreds place are the same. The number with the greater digit at the tens place is bigger than the other number.

Rule 3: Compare the digits at the ones place if the digits at the hundreds and the tens places are the same. The number with the greater digit at the ones place is bigger than the other number.


## Comparison of a 3-digit number and a 4-digit number

The price of a table fan is ₹ 850 and that of a ceiling fan is ₹ 1300 . Which fan costs more?
 Note that 1300 has one thousand whereas 850 has no thousands. Therefore, 1300 is greater than 850 .

$$
1300>850
$$

Also, 1300 has 4 digits whereas 850 has only 3 digits.
Therefore, the ceiling fan costs more than the table fan.

Rule 1: In general, the number with more digits is always greater than the other number.


Th H T O
1300

## Comparison of 4 -digit numbers

Rule 2: Compare the digits at the thousands place of two given numbers. The number with the greater digit at the thousands place is bigger than the other number.


Rule 3: If the digit at the thousands place is same in both the numbers, then the number with the greater digit at the hundreds place is bigger than the other number.

Rule 4: If the digits at the thousands and the hundreds places are the same in both the numbers, then the number with the greater digit at the tens place is bigger than the other number.

Rule 5: If the digits at the thousands, the hundreds and the tens places are the same in both the numbers, then the number with the greater digit at the ones place is bigger than the other number.


## Exercise 1.3

Compare the numbers and put the correct sign (>/</=).
(a) $251 \square 1320$
(b) $8756 \square 7245$
(c) $6580 \square 6583$
(d) $2475 \square 5784$
(e) $9475 \square 9784$
(f) $4025 \square$ 4052
(g) $1024 \square 2024$
(h) $3457 \square 3547$
(i) $7389 \square$ 7089
(j) $999 \square 1000$
(k) $5001 \square 4999$
(I) $9999 \square 9990$

2 State whether the following are true ( T ) or false ( F ).
(a) 2002 > Three thousand

(b) $5000+400+20+1<9000+400+20+1$
(c) $3000+3>3000+30+3$ $\square$
(d) $5000+600+30+7<5000+600+30+4$
(e) $2000+200+1>2000+200+10$ $\square$
(f) $900+90+9>9000+90+9$
(g) Seven thousand and forty-two < Seven thousand four hundred and forty-two $\square$
3 Arrange the following numbers in ascending order.
(a) $245,4390,4281,4387$
(b) $7582,7524,7568,7531$
(c) $9999,9990,9995,9998$ $\qquad$
Tick $(\checkmark)$ the sets of numbers which are in descending order.
(a) $8547,6245,3012,1845,101$ $\square$ (b) 6852, 6514, 6489, 6257, 6200
(c) $2678,2659,2632,2610,2611$ $\square$ (d) $7024,4356,2425,1658,1912$
(e) $9000,6000,8000,4000,100$ $\square$ (f) $1869,1867,1864,1862,1860$
$\square$
$\square$

## FORMING NUMBERS WITH THE GIVEN DIGITS

Different 4-digit numbers can be formed with the given digits. For example, using the digits 5, 2,6 and 9 , some of the 4 -digit numbers that can be formed are:

| Th | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{0}$ | Th | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{0}$ | Th | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{0}$ | Th | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{0}$ | Th | $\mathbf{H}$ | $\mathbf{T}$ |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\mathbf{6}$ | $\mathbf{0}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 5 | 9 | 5 | 9 | 2 | 6 | 6 | 9 | 2 | 5 | 9 | 5 | 6 | 2 | 2 | 9 | 5 | 6 |

## Smallest 4-digit Number

Example: Which is the smallest 4-digit number that can be formed using the digits $5,2,6$ and 9 only once?

Step 1: In order to form the smallest 4-digit number with the given digits, first identify the smallest digit among the four.

| Th | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{O}$ |
| :---: | :---: | :---: | :---: |
| 2 |  |  |  | Here, among 5, 2, 6 and 9, 2 is the smallest digit.

Write the smallest digit at the thousands place.

Step 2: Identify the smallest digit among the rest of the three digits. 5 is the smallest among 6,5 and 9 .


Write 5 at the hundreds place.

Step 3: Again, identify the smaller digit among the remaining two digits. 6 is the smaller among 6 and 9 .

| Th | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{O}$ |
| :---: | :---: | :---: | :---: |
| 2 | 5 | 6 |  |

Write 6 at the tens place.

Step 4: Write the remaining digit, that is, 9 at the ones place.

| Th | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{O}$ |
| :---: | :---: | :---: | :---: |
| 2 | 5 | 6 | 9 |

Therefore, 2569 is the smallest 4-digit number that can be formed using the digits 5, 2, 6 and 9 only once.

How are the digits arranged in the number 2569 ?
Note that, the digits are arranged in ascending order from thousands place to ones place.

Rule: To form the smallest 4-digit number using the given digits, arrange the digits in ascending order.


What is the smallest 4-digit number that can be formed using the digits 4, 1, 0 and 7 only once?

Arranging digits in ascending order will give the smallest 4-digit number.

Note that 0147 is the same as 147 , which is a 3-digit number.
So, interchange the positions of 1 and 0 .
Therefore, 1047 is the smallest 4-digit number.


Rule: While forming the smallest 4-digit number using the given digits, if one of the digits is 0 , then first write the digits in ascending order and then interchange the digits at thousands and hundreds places.

## Greatest 4-digit Number

What happens to the number when you write its digits in descending order?
Consider the example of writing the digits $2,5,6$ and 9 in descending order.

The number you get is 9652 .
9652 is the greatest 4-digit number that can be formed using the digits 5, 2, 6 and 9 only once.


Rule: To form the greatest 4-digit number using the given digits, arrange the digits in descending order.

Smallest 4-digit number is 1000.
Greatest 4-digit number is 9999.
Can you write the smallest and the greatest 4-digit number using the digits 5, 8, 3, 9? Smallest: $\qquad$
Greatest: $\qquad$

## Exercise 1.4

Underline the smallest 4-digit number that can be formed using the given digits.
(a) $8,1,7,2$
$1728 \quad 12871278$
(b) 9, 3, 4, $6 \quad 34693496$
3964
(c) 2,3,4,1 $1324 \quad 1234 \quad 4321$
(d) $8,5,4,6 \quad 8546 \quad 4568 \quad 4658$
(e) 7,5, 0, $8 \quad 587 \quad 50875078$
(f) 0,9, 4,7 $7097 \quad 4079 \quad 7049$

2 Write the greatest 4-digit number that can be formed using the given digits.
(a) $3,5,1,9$ : $\qquad$ (b) $1,3,5,7$ : $\qquad$
(c) $8,7,6,9$ : $\qquad$ (d) $7,8,3,2$ : $\qquad$
(e) $4,0,8,5$ : $\qquad$ (f) $2,3,0,1$ : $\qquad$

Fill in the blanks.
(a) The greatest 2-digit number is $\qquad$ -
(b) The smallest 4-digit number is $\qquad$ .
(c) The greatest 4-digit number is $\qquad$
(d) The smallest 3-digit number is $\qquad$ _.
(e) The greatest 3-digit number is $\qquad$ .
(f) The smallest 2-digit number is $\qquad$

## BEFORE, IN BETWEEN, AFTER

1 less than the given number will give the number before it.
1 more than the given number will give the number after it.


## NUMBER PATTERNS BY SKIP COUNTING

## Skip Count of Numbers by 2

Start from a number and skip count by 2 to get a sequence of numbers.
1500, 1502, 1504, 1506, 1508,
1510, 1512, 1514, $\qquad$
$\qquad$

## Skip Count of Numbers by 5

Start from a number and skip count by 5 to get a
 sequence of numbers.
$1210,1215,1220,1225,1230$,
1235, 1240, 1245, $\qquad$ ,

## Skip Count of Numbers by 10

From the starting number, skip count by 10 to get the sequence of numbers.
$1100,1110,1120,1130,1140,1150,1160,1170,1180$, $\qquad$

## Skip Count of Numbers by 100

Skip count the numbers by 100 from the starting number to get the next number.
2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, $\qquad$
$\qquad$

## Skip Count of Numbers by 1000

Starting from 1000, skip count by 1000 to get the following number sequence.
1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000, $\qquad$
$\qquad$

## Exercise 1.5

Complete the patterns using skip counting.

1. $1464,1466,1468$, $\qquad$ , $\qquad$ ,
2. $8014,8016,8018$, $\qquad$ , $\qquad$ ,
3. $3545,3550,3555$, $\qquad$ , $\qquad$ ,
4. 6585, 6590, 6595, $\qquad$ , $\qquad$
5. 3690, 3700, 3710, $\qquad$ , $\qquad$
6. $8256,8266,8276$, $\qquad$ , $\qquad$ ,
7. $1100,1200,1300$, $\qquad$ , ,
8. 4356, 4456, 4556, $\qquad$
$\qquad$ ,
9. 1227, 2227, 3227, $\qquad$ , ,
10. 2600, 3600, 4600, $\qquad$ , .

## EVEN AND ODD NUMBERS

Let us recall the concept of even and odd numbers.
The numbers which can be paired completely are known as even numbers.


For example, consider the number 4.

4 apples can be paired completely. Therefore, 4 is an even number.
Consider the number 7. One banana is left. Therefore, 7 is an odd number.


The numbers which cannot be paired completely are known as odd numbers.

Odd numbers have $1,3,5,7$ or 9 in their ones place.
Even numbers have $2,4,6,8$ or 0 in their ones place.

Classify the numbers from 100 to 120 into odd and even numbers.

| Odd | Even |
| :---: | :---: |
| 101 | 102 |
| 103 | 104 |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Observe the last digits of odd numbers.
Write the last digits of odd numbers.

Observe the last digits of even numbers.
Write the last digits of even numbers.

Numbers can be classified into odd and even numbers by looking at the digits at the ones place. For example, 7035 is an odd number as its end digit is 5 . The number 8124 is even as its end digit is 4 .
Fill in the blank in the following table.

| Number | Digit at ones place | Odd/Even |
| :---: | :---: | :---: |
| 9387 |  |  |
| 5610 |  |  |

## ROUNDING OFF NUMBERS

Read the following sentences.


There are about 200 students in the school assembly.


The total population of tigers in India is roughly 1700.

The words 'roughly,' 'around' and 'about' are used to tell the rounded-off numbers rather than the exact numbers. For example, roughly 1700 tigers means there are close to 1700 tigers but not exactly 1700.

Sometimes, numbers are rounded off to the nearest ten or hundred or thousand to give a rough idea of the quantity present.

## Rounding off numbers to the nearest 10

Consider the number 27. To round off this number to the nearest 10 , let us represent it on the number line.


The number 27 is in between 20 and 30. Also, it is closer to 30. Therefore, it can be rounded off to 30 .

Consider the number 21. It is closer to 20 . Therefore, 21 can be rounded off to 20 .
The number 25 is in between 20 and 30 . Also, it is at the same distance from 20 as it is from 30 . But, in general practice, we round off 25 to 30 .

Let us round off 3 -digit numbers to the nearest 10 .
112 can be rounded off to 110 as it is closer to 110 than 120 .


116 can be rounded off to 120 as it is closer to 120 .

## Rounding off numbers to the nearest 100

Let us round off the number 310 to the nearest 100. Observe that the number 310 is closer to 300 than 400 . Therefore, the number 310 is rounded off to 300 .


380 is closer to 400 . Hence, it can be rounded off to 400.
The number 350 will be rounded off to 400 . It is a rule that the number exactly in the middle of two numbers will be rounded off to the hundred towards its right.
The number 821 will be rounded off to 800 and 876 to 900 .

## Exercise 1.6

1 Round off the numbers to the nearest 10.
(a) 24 $\qquad$
(b) 12
(c) 65 $\qquad$
(d) 89 $\qquad$
(e) 37
(f) 94 $\qquad$

2 Underline the number rounded off to the nearest 10 of the given number.
(a) $136 \rightarrow 150$
$130 \quad 140$
(b) $551 \rightarrow 560 \quad 550$
540
(c) $101 \rightarrow 100 \quad 10 \quad 110$
(d) $478 \rightarrow 470 \quad 490$
480
(e) $812 \rightarrow 800810820$
(f) $795 \rightarrow 790 \quad 780 \quad 800$

3 Round off the numbers to the nearest 100.
(a) 204
(b) 122
(c) 605 $\qquad$
(d) 891 $\qquad$ (e) 379
(f) 940 $\qquad$
(g) 550 $\qquad$ (h) 710 $\qquad$ (i) 470 $\qquad$

4 Round off the numbers in the following sentences to the nearest 100 and rewrite the sentences. The first one has been done for you.
(a) In a tennis stadium, there are 812 spectators.

In a tennis stadium, there are about 800 spectators.
(b) The population of a village is 285 .
(c) There are 432 marbles in the jar.

