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Maths Now is a series of eight books for classes 1 to 8 based on the NCERT syllabus. The series follows an activity-oriented approach to make mathematics engaging for students through emphasizing connections between mathematics and day-to-day experiences. This series also features the balanced use of manipulatives, virtual manipulatives, abstract ideas and other interesting features to improve inherent mathematical skills of students by creating foundational interest in the subject.

This series has been created with a view to enhance the students' understanding of the key concepts of mathematical problem-solving and to increase practical learning by bringing in contexts from outside the classroom. The main aim of the series is to eradicate maths phobia among students, make mathematical concepts crystal clear so that students appreciate the beauty of the subject and the role it plays in one's life.

Key Features

Let's Get Started Chapter starter in the form of a picture-based exercise

Mental Maths Objective-type questions to develop quick-thinking skills

Go Easy! Additional tips helping students to calculate quickly

Do You Know? Nuggets of information to add real-world context to abstract mathematical concepts

Common Errors Pointers highlighting common mistakes and misconceptions

Solved Examples Exercises with step-by-step solutions

Word Problems Textual questions based on real-life situations

Exercises In-text objective-type questions for quick review

Crossword and Puzzles Mathematical problems to stimulate the students' engagement

Maths Lab Activity Hands-on activity to connect concepts with their practical uses in real-life situations

Concept Map Graphic organizer to logically represent relationships between concepts under one topic

Key Concepts List to concisely give an overview of concepts in each topic

Chapter Revision Exercises at the end of each chapter for a comprehensive review **Skill Up!**

- **Project** Practical activities to enhance real-world application of concepts
- Life Skills Questions to inculcate positive behaviour and add a layer of ethical thinking while solving practical mathematical questions
- S Mind Buzzer Questions to provide challenging questions relating to real-life examples

Teacher's Notes Important tips related to concepts for the teacher

Worksheets Exercises that covers financial literacy, inferential and experiential learning

Reasoning Worksheet Questions to stimulate rational thinking using mathematical skills

Eminent Mathematicians Brief write-up on eminent mathematicians and their contributions

Poster Important points and formulae in the form of a pull-out page

Review Corner Variety of questions at the end of the book for additional practice

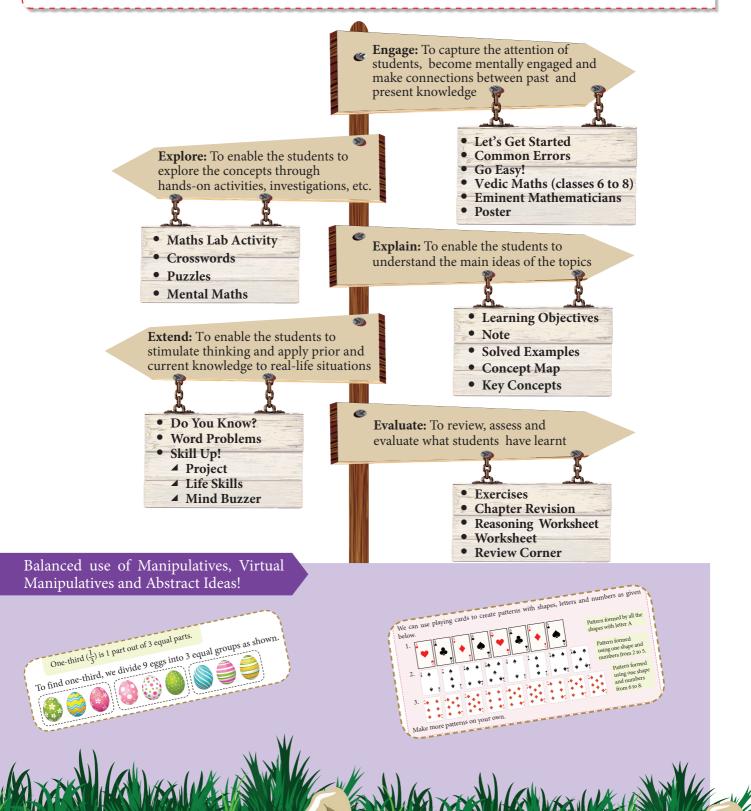
We would like to take this opportunity to thank all the teachers who reviewed the books and provided their feedback, which helped in improving the quality of the content.

Authors

Feedback, invaluable comments and suggestions from users are welcome.

Key Features

Different features interspersed within the book aim to provide active learning tools and techniques. These tools and techniques have been designed keeping in mind the 5E principle based on the constructivist approach to learning. These features can be used as learning strategies to enhance the understanding of key concepts of mathematics and increase practical learning and problem-solving by bringing in real-life contexts from outside the classroom.



About the Features





Maths Around Us	
1. Numbers up to 10,000	9
Worksheet.	
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International Mathematics Olympiad Paper	
Answers	
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Maths Around Us

SYMMETRY AROUND US ...

We can observe symmetry all around us—in nature, in patterns, art and architecture, at home, etc. Symmetry means having one half that is exactly the same as or is a mirror image of the other half.

Any shape, figure or object is said to be symmetrical if it has mirror halves or equal parts. That is, each half or part must be of the same shape and size as the other.

To find out whether a given shape or object is symmetrical, we can draw an imaginary line through its centre to see if the line divides the shape or object into identical halves. In addition, we can also fold a figure along this imaginary line to obtain the symmetrical halves.

Most buildings and historical monuments in the world are constructed using symmetry. It helps in making these structures stronger and adds to their beauty as well.



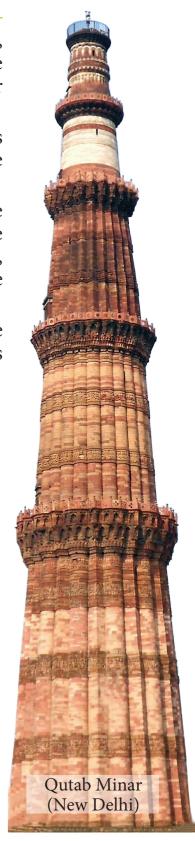
India Gate (New Delhi)



Lotus Temple (New Delhi)

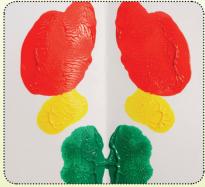


Taj Mahal (Agra, Uttar Pradesh)



To understand symmetry better, let us do a hands-on activity with art.

- 1. Take a piece of paper (square or rectangular) and fold it perfectly in half (ensure all the edges line up).
- 2. Open the paper and place two or three teaspoons of different coloured liquid paint on the paper (preferably near the fold), in a pattern of your choice.
- 3. Then fold the paper and slowly rub on top of the paper carefully but thoroughly.
- 4. Now open the paper to see the symmetrical design formed. The line of fold in the centre represents the imaginary line.



5. For more fun, you can decorate the design or pattern obtained with glitter glue after they dry up.

Look out for symmetrical objects or things around you. Collect those things (like leaves or flowers can be dried) or their images and paste them here in the space provided. Also, draw the imaginary line on each to show their symmetrical halves.



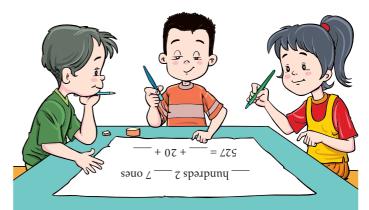
Numbers up to 10,000

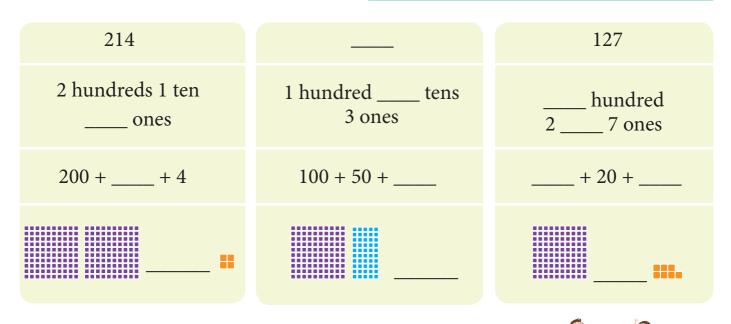
Learning Objectives

- To read, write and expand 4-digit numbers
- To understand place value of 4-digit numbers
- To compare numbers and form the greatest and the smallest 4-digit numbers
- To learn about even and odd numbers
- To round off numbers to the nearest tens, hundreds and thousands

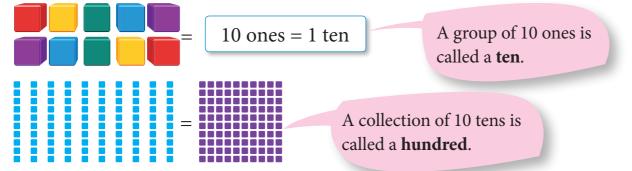
Let's Get Started

Ronav, Saniya and Madhav are solving a place value game on 3-digit numbers as shown alongside. Help them to finish the game.





We know that all numbers are formed by combining the digits from 0 to 9.



The smallest 3-digit number is **100**.

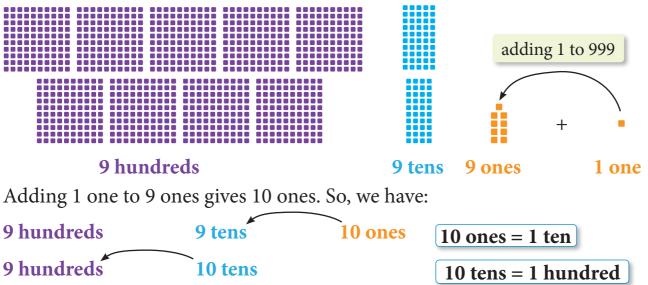
The greatest 3-digit number is **999**.

Let us quickly revise numbers up to 999 by solving the following exercise.

EXERCISE 1A	
1. Look at the above representation and ans	wer the following.
a. Number name:	
b. Expanded form: +	
c. Place values of the digits: h	undreds tens ones
d. What is the number just before this nu	
e. What is the number just after this num	ber?
2. Arrange the following numbers as per the	e order mentioned.
a. increasing order	b. decreasing order
659, 284, 971, 364	129, 843, 705, 364
3. Answer the following.	
Class 3 of a primary school has a total of $(100 + 20 + 5)$ students.	
a. How many students are there in all?	
b. Write the number in words.	

INTRODUCTION TO 4-DIGIT NUMBERS

The greatest 3-digit number is 999. What comes after 999? Let us find out.

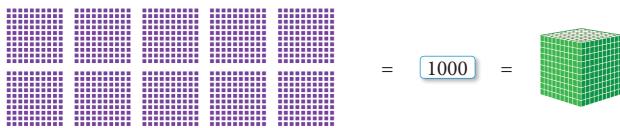


10 hundreds = 1 thousand or 1000

So, the number after 999 is 1000. 1000 is the smallest 4-digit number. It is read as one thousand. The number 1000 introduces the **thousands period** to us.

Just after 1000, the counting continues as 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010 and so on. That is, the numbers increase by 1 each time.

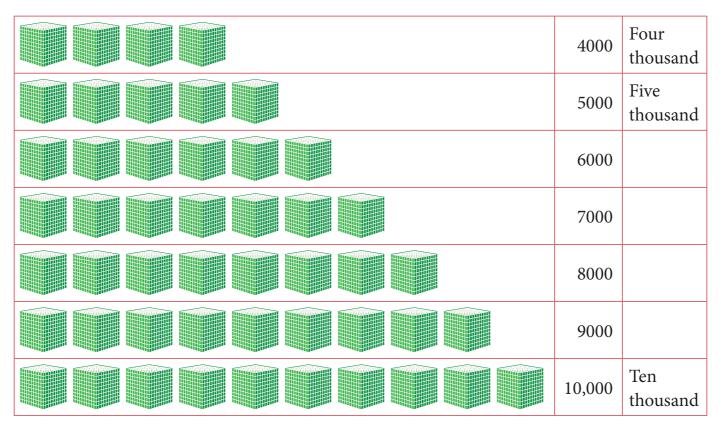
We know that 100 can be represented using a block of 100 small cubes. So, 10 such blocks placed together represent 1 thousand.



Look at the following table and learn counting by thousands. Also, complete the last column of the table.

1000	One thousand
2000	Two thousand
3000	Three thousand





Place Value and Face Value

We represent 4-digit numbers using the following place values.

Thousands	Hundreds	Tens	Ones
Ļ	↓ ↓	↓ ↓	Ļ
Th	Н	Т	0

The **place value** of a digit in a number indicates its position or place in the number. We can write it in words as well as figures.

The **face value** of a digit in a number is the digit itself.

Consider the number 9638.

Place value of:	Face value of:
9 = 9 thousands or 9000	9 = 9
6 = 6 hundreds or 600	6 = 6
3 = 3 tens or 30	3 = 3
8 = 8 ones or 8	8 = 8

Go Easy!

An easier way to write the place value is by writing the digit followed by as many zeros as the number of digits on the right side of the digit concerned.

Example: In 7463, the place value of 7 is 7000 (as there are three digits after the digit 7 in the given number).



Example: Write the place value and face value of each digit in the number 5839.

Th	Н	Т	0
5	8	3	9
Ļ	Ļ	Ļ	Ļ
5000	800	30	9
5	8	3	9

Place value Face value

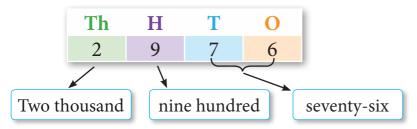
UNDERSTANDING 4-DIGIT NUMBERS

Read and Write 4-Digit Numbers

To read and write the number names for 4-digit numbers:

- first read the number in thousands place,
- then read the number in hundreds place and
- finally, read the numbers in tens and ones places together.

Consider the following 4-digit numbers.



509Five thousandnine

Т

 \mathbf{O}

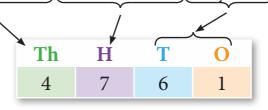
Η

Th

5009: Five thousand nine

2976: Two thousand nine hundred seventy-six Writing Numerals for Number Names

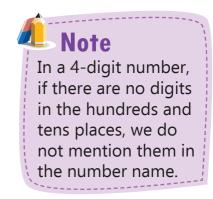
Consider the number name four thousand, seven hundred, sixty-one.,



The numeral for it is

The numeral for the number name nine thousand eight hundred fifty is

Th	Η	Τ	0
9	8	5	0



b. 2730

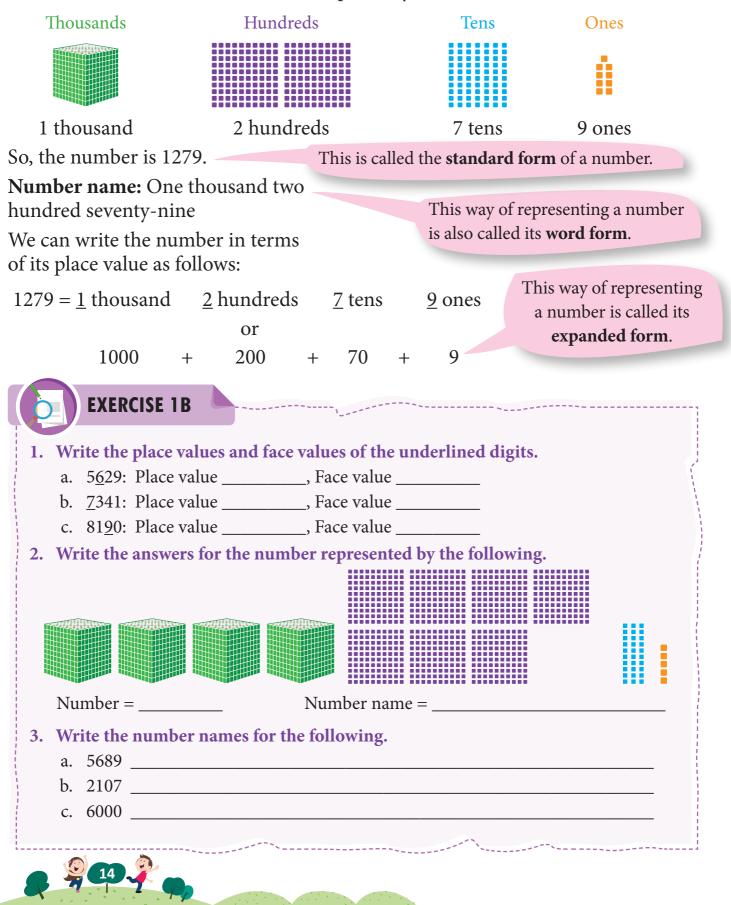
Mental Maths

Find the place value and the face value of the underlined digits.

a. 75<u>8</u>4

More About 4-Digit Numbers

Look at the following representation of a 4-digit number. Count the number of thousands, hundreds, tens and ones, respectively.



4.	Write the numerals for the following.
	a. Six thousand two hundred eighty-one
	b. Nine thousand three hundred sixty-seven
	c. Eight thousand one hundred fifty-four
5.	Write the expanded form of the following numbers.
	a. 4029 = + + +
	b. 8 5 7 2 = + + +
	c. 1 3 6 4 = + + +
6.	Write the numerals.
	a. 6000 + 400 + 20 + 9 = b. 5000 + 100 + 30 + 8 =
	c. $3000 + 200 + 40 + 0 = $ d. $8000 + 600 + 50 + 3 = $
7.	Fill in the blanks.
	a. Seven thousand six hundred ninety-five people lived in a village.
	Write that in numerals:
	b. Out of them, the number of men were equal to the place value of 7.
	Number of men =
	c. The number of children were equal to the sum of the place values of 9 and 5.
	Number of children =

NUMBER AFTER, BEFORE OR IN BETWEEN

To find the number that comes just after any given 4-digit number, we add 1 to the digit in the ones place of the given number.

Example: Write the number that comes just after each of the following.

 Mental Maths

 What comes just after:

 a. 7218

 b. 3429

a. $2964 \rightarrow \underline{2965}$ b. $3718 \rightarrow \underline{3719}$

The number that comes just **after** a given number is called the **successor** of that number.

To find the number that comes just before any given 4-digit number, we subtract 1 from the digit in the ones place of the given number.

Example: Write the number that comes just before each of the following.

a. <u>5293</u> ← 5294 b. <u>7385</u> ← 7386

??????????????????????????????????????	Mental Maths
What co	mes just before:
a	7246
b	3950



The number that comes just **before** a given number is called the **predecessor** of that number.

The number **in between** is the number between two numbers. It will be the successor of the first number and the predecessor of the second number.

Example: Find the number in between the given numbers.

a. 2596, <u>2597</u>, 2598 b. 7103, <u>7104</u>, 7105

COUNTING NUMBERS IN 10s, 100s AND 1000s

Counting Numbers in 10s

When we count numbers in 10s, we add 10 each time.

Example: Write the next four numbers by counting in 10s.

 $2730 \xrightarrow{+10} 2740 \xrightarrow{+10} 2750 \xrightarrow{+10} 2760 \xrightarrow{+10} 2770$

Counting Numbers in 100s

When we count numbers in 100s, we add 100 each time.

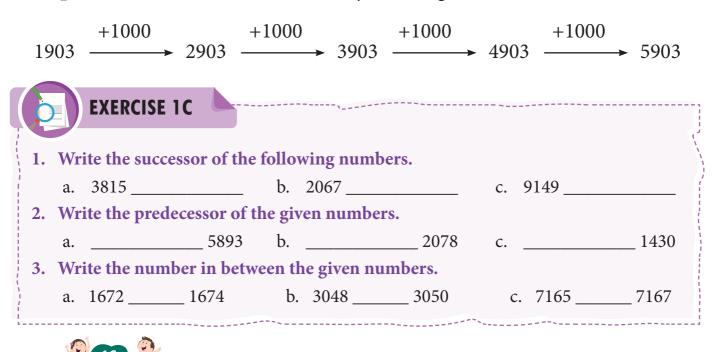
Example: Write the next four numbers by counting in 100s.

 $3280 \xrightarrow{+100} 3380 \xrightarrow{+100} 3480 \xrightarrow{+100} 3580 \xrightarrow{+100} 3680$

Counting Numbers in 1000s

When we count numbers in 1000s, we add 1000 each time.

Example: Write the next four numbers by counting in 1000s.



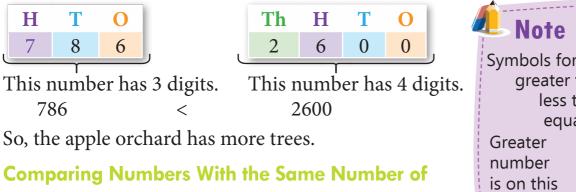
4. Fill	in the blanks by counting in 10s.
a.	7430,,,,,,,
b.	2581,,,,,,
5. Fill	in the blanks by counting in 100s.
a.	2100,,,,,,
b.	9236,,,,,,,
6. Fill	in the blanks by counting in 1000s.
V. States and States	3000,,,,,,
b.	5929,,,,,,

COMPARISON OF NUMBERS

Comparing Numbers With Different Number of Digits

A mango orchard had 786 trees and an apple orchard had 2600 trees. Which orchard had more trees?

Here, compare 786 and 2600.



Digits

Let us learn to compare numbers with the same number of digits using the following examples.

SOLVED EXAMPLES

Example 1:

Compare the given numbers and write >, < or =.

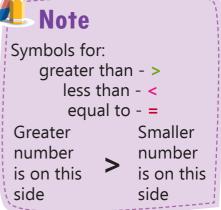


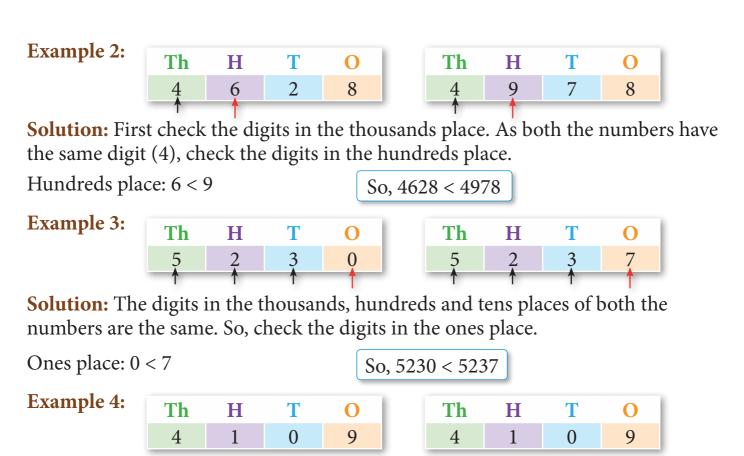
Solution: We first check the digits in the thousands place of both the numbers.

Thousands place: 7 > 3

So, 7290 > 3875







Solution: The digits in all the four places of both the numbers are the same. So, both the numbers are equal.

So, 4109 = 4109

Greatest and Smallest Numbers

Vibha has 3617 books in her library, Amit has 2458 books, Sachin has 1800 books and Shalini has 3099 books.

Who has the maximum number of books? Who has the least number of books?



Finding the Greatest Number

To find the maximum number of books, we need to find the greatest number out of the four given numbers.



First check the digits in the thousands place. The greatest digit determines the greatest number.

The numbers 3617 and 3099 have 3 in the thousands place. The other two numbers (2458 and 1800) have smaller thousands digits (2 and 1, respectively).



	Th	Η	Τ	0
3 6 1 7 3 0	3	6	1	7

Check the hundreds digits in the numbers 3617 and 3099. Since 6 > 0, 3617 > 3099.

So, Vibha has the maximum number of books.

Finding the Smallest Number

To find the least number of books, we need to find the smallest number out of the four given numbers.



First check the digits in the thousands place. The smallest digit determines the smallest number.

As 1 is the smallest digit, 1800 is the smallest number.

So, Sachin has the least number of books.

SOLVED EXAMPLES

Example 1: Find the greatest number among the following groups of numbers.

a.	5624	5639	5670	5681
b.	7358	7352	7356	7354

Solution a: In this case, the digits in the thousands and hundreds places are the same in all the numbers. So, check the digits in the tens place.



The greatest digit in the tens place determines the greatest number. So, 5681 is the greatest number.

Solution b: Here, the digits in the thousands, hundreds and tens places are the same. So, check the digits in the ones place.

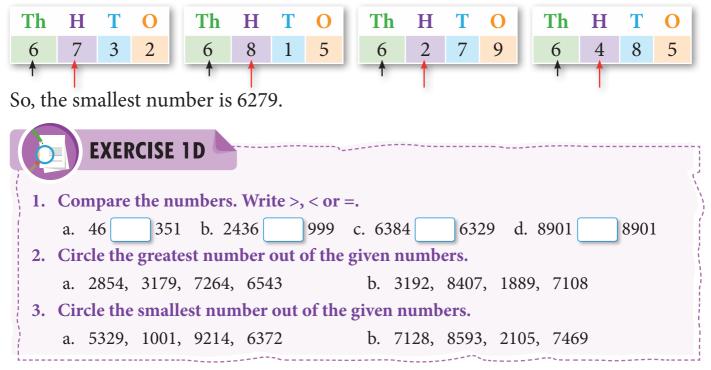


The greatest digit in the ones place determines the greatest number. So, 7358 is the greatest number.

Example 2: Find the smallest number out of the given numbers.

6732681562796485

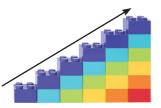
Solution: In all the numbers, the digits in the thousands place are the same. So, we check the digits in the hundreds place.



Order of Numbers

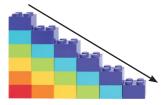
Ascending Order

Ascending order means arranging from the smallest to the greatest.



Descending Order

Descending order means arranging from the greatest to the smallest.



To write numbers in **ascending order**, compare them and then write them from the smallest to the greatest.

Example: Arrange the following numbers in ascending order.

5123 4709 8352 4627

First check the number of digits in each number. All the numbers have 4 digits. Next check the digits in the thousands place. The smallest digit determines the smallest number.

Here 4627 and 4709 have the smallest digit in the thousands place, which is 4.



As 4709 and 4627 have the same digit (4) in the thousands place, we check the digits in the hundreds place. 7 0 9 and Compare 4 6 2 7. 4 In the hundreds place, 6 < 7. So, 4627 becomes the smallest number and 4709 is the second greater number. Now compare the other two numbers, (5) 123 and (8) 352. Here, 5 < 8. So, the third greater number is 5123 and the greatest number is 8352. (3)(2)(4)(1)Note 5123. 4709. 8352. 4627 Remember to write on So, by arranging the numbers in ascending order, we get: top of each number its position to indicate their 4627 < 4709 < 5123 < 8352 order, that is, increasing To write numbers in **descending order**, compare them or decreasing. and then write them from the greatest to the smallest. **Example:** Arrange the following numbers in descending order. 1340, 8457, 6219, 9738 First check the digits in the thousands place of all the numbers. 9738 has the greatest digit in the thousands place. So, it is the greatest number. Looking at the thousands digits and arranging the numbers in descending order, we get: (1)(2)3 4 9738 8457 6219 1340 > > >**Mental Maths** FORM GREATEST AND SMALLEST NUMBERS 1. Number these bottles in an **OUT OF GIVEN DIGITS** ascending order of height. Samar has 4 cards. Each card has a digit on it. Help Samar make the greatest number out of these digits. 3 5 1 2. Number these pine trees in descending order of height. To form the greatest number out of these a. digits, write the greatest digit first, then the next greater digit and so on. The greatest 4-digit number using the

given digits is 7531.

7 5 3

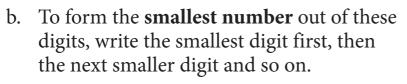
1

1 3 5 7	following digits.									
	5,8,0,3									
EVEN AND ODD NUMBERS	Greatest number 8530									
Even numbers are numbers that can be p	oaired Smallest number: 0358 🗴									
completely.	3058 🗸									
(B) (C) 4 is an even num	ber. A number never begins with a zero. Zero has no value at									
These numbers end with or have 0, 2, 4, 6 of their ones place. Examples: 430, 6574, 2068	8 We start with the next									
Odd numbers are numbers that cannot b	smallest digit and then									
completely.										
🛛 🙆 🏹 🧿 📄 🤷 5 is an odd n	number.									
These numbers end with or have 1, 3, 5, 7	7 or 9 in their ones place.									
Examples: 431, 6575, 2067										
· · · · · · · · · · · · · · · · · · ·										
Do you know?	2 2 Company and the first state of the									
Do you know?	2 ? Mental Maths									
While counting numbers in sequence, even and odd numbers appear alternately.	1. Smallest and largest numbers formed by									
While counting numbers in sequence, even and odd numbers appear alternately. Odd Odd Odd Odd	 Smallest and largest numbers formed by 2, 8, 0, 6 are and 									
While counting numbers in sequence, even and odd numbers appear alternately. Odd Odd Odd Odd	 Smallest and largest numbers formed by 2, 8, 0, 6 are and Is 342 an odd number? 									
While counting numbers in sequence, even and odd numbers appear alternately. Odd Odd Odd Odd 1 2 3 4 5 6 7 Even Even Even	 Smallest and largest numbers formed by 2, 8, 0, 6 are and 									
While counting numbers in sequence, even and odd numbers appear alternately. Odd Odd Odd Odd 1 2 3 4 5 6 7	 Smallest and largest numbers formed by 2, 8, 0, 6 are and Is 342 an odd number? 									
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While counting numbers in sequence, even and odd numbers appear alternately. Odd Odd Odd Odd 1 2 3 4 5 6 7 Even Even Even	 Smallest and largest numbers formed by 2, 8, 0, 6 are and Is 342 an odd number? Is 4408 an even number? 									
While counting numbers in sequence, even and odd numbers appear alternately. Odd Odd Odd Odd 1 2 3 4 5 6 7 Even Even Even EXERCISE 1E 1. Write each group of numbers in ascend	 Smallest and largest numbers formed by 2, 8, 0, 6 are and Is 342 an odd number? Is 4408 an even number? ding order. 									
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While counting numbers in sequence, even and odd numbers appear alternately. Odd Odd Odd Odd 1 2 3 4 5 6 7 Even Even EvenEven EvenEven EvenEXERCISE 1E1. Write each group of numbers in ascend a. 9621a. 96211580 b. 6432b. 64322814	 Smallest and largest numbers formed by 2, 8, 0, 6 are and Is 342 an odd number? Is 4408 an even number? Is 4408 an even number? Is 4408 an even number? 									
While counting numbers in sequence, even and odd numbers appear alternately. Odd Odd Odd Odd 1 2 3 4 5 6 7 Even Even Even EXERCISE 1E 1. Write each group of numbers in ascence a. 9621 1580 b. 6432 2814 c. 2431 5143	 Smallest and largest numbers formed by 2, 8, 0, 6 are and Is 342 an odd number? Is 4408 an even number? Is 4408 an even number? Is 4408 an even number? 									
 While counting numbers in sequence, even and odd numbers appear alternately. Odd Odd Odd 1 2 3 4 5 6 7 Even Even Even Even Even Even Even EXERCISE 1E Write each group of numbers in ascenda. 9621 1580 6432 2814 2431 5143 Write each group of numbers in descentation 	 Smallest and largest numbers formed by 2, 8, 0, 6 are and Is 342 an odd number? Is 4408 an even number? Is 4408 an even number? 									

Common Errors

Write the greatest and the

smallest numbers with the



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3.	Wr	ite the	great	test a	nd th	e smallest numbers f	orme	d by t	he gi	ven o	ligits.
						G	reatest	-	Sma	llest	
	a.	2,	8,	5,	4						_
	b.	3,	9,	1,	0						_
	c.	5,	3,	8,	2						_
4.	Wr	ite the	last d	ligit	to ma	ke these numbers ev	en.				
		Th	Η	Τ	0		Th	Η	Т	0	
	a.	5	7	3		b.	6	1	4		
5.	Wr	ite the	last d	ligit	to ma	ke these numbers od	d.				
		Th	Η	Τ	0		Th	Η	Τ	0	
	a.	5	1	3		b.	7	0	8		

ROUNDING OFF NUMBERS

Rounding off a number is a method used when we do not know the exact number but come close to the actual number. This method helps us to do our calculations faster and easily.

For instance, if there are 18 children in a park, we can say that there are about 20 children in the park.

Let us learn how to round off a number to its nearest 10 or 100.

Rounding off Numbers to the Nearest 10

To round off a number to the nearest 10, we look at the digit at the ones place.

- If the digit at the ones place is less than 5 (i.e., 0, 1, 2, 3 or 4), we retain the tens digit as it is and change the ones digit to 0.
- If the digit at the ones place is equal to or greater than 5 (i.e., 5, 6, 7, 8 or 9), we add 1 to the tens digit and change the ones digit to 0.

This can also be explained on a number line.



Rules of rounding off to the nearest 10

Rounded down	Numbe	Rounded up		
0	0 to 4	5 to 9	→ 10	
10 🔶	10 to 14	15 to 19	→ 20	
20 🖛	20 to 24	25 to 29	→ 30	
30 🖛	30 to 34	35 to 39	→ 40	
40 🖛	40 to 44	45 to 49	→ 50	
50 🔶	50 to 54	55 to 59	→ 60	
60 🖛	60 to 64	65 to 69	→ 70	
70 🖛	70 to 74	75 to 79	→ 80	
80 🖛	80 to 84	85 to 89	→ 90	
90 🔶	90 to 94	95 to 99	→ 100	

