

Large Numbers

SPECIFIC OBJECTIVES

The students will

- understand the concept of large numbers.
- learn how to read and write large numbers using the Indian place-value chart.
- know about the International place-value table.
- understand the differences and relationship between the two systems of numeration.
- know the predecessor and successor of very large numbers.
- learn comparing and arranging of large numbers.
- understand the formation of larger numbers.
- read and understand about Roman numerals.
- know the application of large numbers in day-to-day life.

CONTENTS EXPLAINED INSIDE THE CHAPTER

- Extension of Numbers (page 70)
- Indian System of Numeration (pages 70–73)
- International System of Numeration (pages 73–76)
- Predecessor and Successor (pages 76–77)
- Comparing and Arranging the Numbers (pages 77–80)
- Roman Numerals (pages 80–82)

TEACHING AIDS

A few collections of large numbers like population of states, big cities, countries, etc., abacus, chart paper, chalk, blackboard, etc.

TEACHING STRATEGY

- First, the teacher should talk about the importance of large numbers in our daily life and then she should instruct the students to solve the questions given in 'Let Us Recall' exercise.
- Then, the teacher should extend the family of large numbers and motivate the students to read and write the numbers according to the Indian system of numeration. She should ask

- them to focus on the new periods and places that come in the left side of place-value chart.
- She should also explain the place and face values of the digits and expanded/compact form of the numbers. For text and exercise, she should go to pages 70–73.
 - After that, the teacher should also introduce them about the International system of numeration and explain the differences and similarities between the two systems. Then, she should encourage them to read, write and understand the numbers according to the International place-value chart. For text and exercise, she should go to pages 73–76.
 - Again, the teacher should talk about the predecessor and successor of large numbers. Thereafter, she should teach them how to compare and order the numbers. She should also explain the formation of the greatest/smallest numbers using the given digits. For text and exercise, she should go to pages 76–80.
 - As the students have learnt the Roman numerals up to 100 in the previous classes, the teacher should first recall them and then extend for bigger numerals. For text and exercise, she should go to pages 80–82.
 - Further, the teacher should involve the students in solving the questions of HOTS and then enjoy doing Fun Zone.
 - Finally, she should instruct them to complete the Project work as Home Assignments.

EXPECTED LEARNING OUTCOMES

Students are able to

- read and understand large numbers.
- express the numbers in words and figures according to the Indian as well as International systems of numeration.
- compare the two systems of numeration.
- find out the successor and predecessor of large numbers.
- compare and arrange the given numbers.
- form the smallest/biggest number using the instructed digits.
- read and write the Roman numerals.
- understand the importance of large numbers in daily life.