



NUMBER SYSTEM

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 01

CHAPTER NAME : NUMBER SYSTEM

SUB TOPIC:FORMATION OF LARGEST AND SMALLEST NUMBER

PERIOD NO :2

CHANGING YOUR TOMORROW

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Learning outcome

- Students will be able to form largest number and smallest number.
- Student will be able to identify largest and smallest numbers from a group of numbers

Previous Knowledge Test

Q1.State the rule for comparing two given numbers.

Q2. Compare the numbers 9524420 and 9528420.

Q3. . Fill in the blanks with < or > sign:

(i) 34512 5451

(ii) 63458 63548

(iii) 9678595793

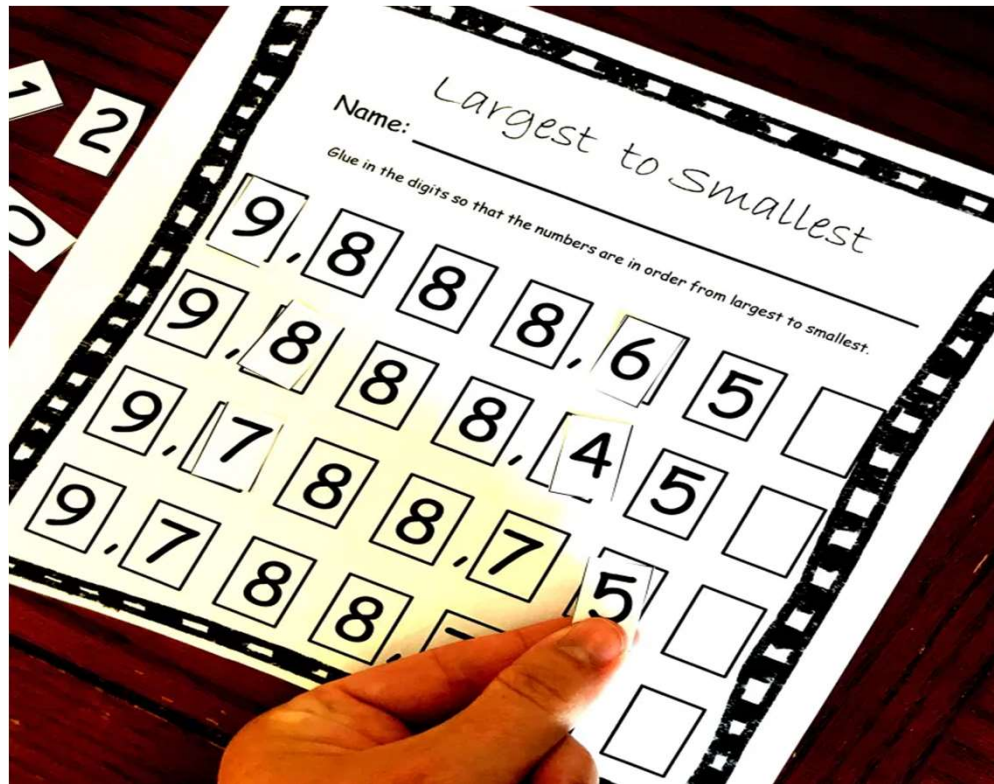
(iv) 58934 58943

Largest and smallest number formation

Largest and smallest number formation will be explained with the help of a video.

<https://www.youtube.com/watch?v=-VuUUhhsUSQ>

Formation of Largest and Smallest Number



Formation of Largest and Smallest Number

To get the smallest number, using the given digits:
the smallest digit is written at the leftmost and then the remaining digits in ascending order of their values to the right.

To get the largest number, using the given digits:
the largest digit is written at the leftmost and then the remaining digits in descending order of their values to the right.

A number can not
begin with 0

Evaluation Question

Q.7 Find the smallest and the greatest numbers in each case given below:

(i) 983, 5754, 84 and 5942

Solution:

Since 84 has the least number of digits.

84 is the smallest number

5754 and 5942 have the maximum number of digits. Among these two 5942 is greater than 5754

Therefore 84 is the smallest number and 5942 is the greatest number.

Evaluation Questions

Q.8. Form the greatest and the smallest 4 digit numbers using the given digits without repetition

(i) 3, 7, 2 and 5

(ii) 6, 1, 4 and 9

Solution:

(i) The given digits are 3, 7, 2 and 5

(a) 7532 is the greatest 4-digit number

(b) 2357 is the smallest 4-digit number

(ii) The given digits are 6, 1, 4 and 9

(a) 9641 is the greatest 4-digit number

(b) 1469 is the smallest 4-digit number

Evaluation Question

Q.10. Form the greatest and the smallest 4-digit numbers using any four different digits, with the condition that digit 5 is always at ten's place.

Solution:

The greatest and the smallest 4-digit numbers using any four different digits, with the condition that digit 5 is always at ten's place is

The greatest 4-digit number = 9857

The smallest 4-digit number = 1052

Additional Home assignment

HW

Ex.1.AQ.No.

9,12,13

Q1. Find the largest 4-digit number using any one digit twice from the digits 5, 9, 2 and 6.

Q2. The largest 5-digit number having three different digits is

(A) 98978

(B) 99897

(C) 99987 (D) 98799

Q3. Write the largest 5-digit number having three different digits.

Q4. Write the smallest 4-digit number and the greatest 4-digit number (without repeating a digit) from each of the following groups of four digits:

(i) 4, 7, 2, 9

(ii) 3, 6, 2, 4

THANKING YOU
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