

forming Numbers →

Greatest number

To form the greatest number, arrange the digits in descending order.

Ex → form the greatest number using the digits 9, 3, 1, 7, 5

Arrange the given digits in descending order.

9 7 5 3 1

The greatest number is 97,531.

Ex → Using digits 3, 5, 1, form the greatest 6-digit number by repeating the digits

The greatest 6-digit number is 5,55,531

(To form the greatest number by repeating digits, repeat the greatest digit.)

Smallest number →

To form the smallest number, arrange the digits in ascending order.

Ex → form the smallest number using the digits 2, 1, 9, 5, 3

The smallest number is 12359

Ex → form the smallest 5 digit number using digits 5, 1, 7

The smallest number is 11157.

To form the smallest number by repeating digits, repeat the smallest digit.

Ex → Form the smallest and greatest 5-digit numbers using digits 7, 0, 1, 6, 4

Greatest number = 76410

Smallest number = 10467

(If one of the given digit is '0', we never write 0 at the extreme left place. We should write 0 at the second place from the left to get the smallest number.)

Ex → form the greatest and smallest 6-digit number by using digits 3, 8, 1, 0

Greatest number = 888310

Smallest number = 100038

H.W
(Learn it and Do Exercise-1.4
in copy.)



Exercise 1.4

H.W
DO IN COPY.

A. Use the given groups of digits to write the greatest and the smallest numbers.

Digits	Greatest number	Smallest number
1. 4, 2, 7, 6, 3	76,432	23,467
2. 2, 1, 3, 7, 8	87,321	12,378
3. 8, 6, 2, 5, 9	98,652	25,689
4. 5, 3, 9, 8, 0, 1	9,85,310	1,03,589

B. Use the given digits to write the greatest and the smallest 5 digit numbers. You may repeat the digits.

Digits	Greatest number	Smallest number
1. 3, <u>7</u> , 1, 4	77,431	11,347
2. 2, 5, 0	55,520	20,005
3. 1, <u>9</u> , 6	99,961	11,169
4. 3, 9	<u>9999</u> 3	33,339

~~2022/5~~



HOTS
Questions

Which is the smallest 5-digit number that ends in 9 and reads the same forwards as well as backwards?

9 0 0 0 9

v. good.