

SESSION : 13 CLASS : IV

SUBJECT: MATHEMATICS

CHAPTER NUMBER: 2

CHAPTER NAME : NUMBERS

SUBTOPIC: FORMATION OF NUMBERS USING

GIVEN DIGITS, EXERCISE-2(F)

CHANGING YOUR TOMORROW

Website: www.odmegroup.org Email: info@odmps.org Toll Free: **1800 120 2316**

Sishu Vihar, Infocity Road, Patia, Bhubaneswar- 751024

LEARNING OBJECTIVE

 Enable the students to understand how to form numbers using given digits.



1. To form the largest number using the given digits only once (without repetition), arrange the given digits in descending order.

Example:

- (a) The greatest 6-digit number formed by using 2, 0, 5, 7, 3, 9 is
 - 9, 7 5, 3 2 0
- (b) The greatest 7-digit number formed by using 1, 2, 8, 9, 4, 3, 0 is **9 8, 4 3, 2 1 0**



2. To form the smallest number using the given digits only once.

(a). Arrange the digits in ascending order when none of the given digits is zero.

Examples:

(i) Smallest number of 6-digit using 2, 1, 3, 5, 8, 9 is

1, 2 3, 5 8 9

(ii) Smallest 7-digit number using 7, 4, 3, 2, 8, 1, 9 is

1 2, 3 4, 7 8 9



- 2. To form the smallest number using the given digits only once.
- (b) When one of the digits is zero, put zero at the second place from the left and arrange the remaining digits in ascending order.

Examples:

- (i) Smallest 6-digit number using 7, 0, 8, 2, 4, 5 is
 - 2, 0 4, 5 7 8
- (ii) Smallest 7-digit number using 8, 5, 1, 0, 7, 4, 2 is

10,24,578



- 3. To form the largest number by repeating the digits,
- first write the digits in descending order.
- * repeat the greatest digit (i.e. the first number) in all the places.

Remember: Its not written to use all the given digits

Examples:

Largest 6-digit number using 6, 8, 3, 5:

Here 8 > 6 > 5 > 3

L	TTh	Th	Н	Т	0
8	8	8	8	8	8



- 4. To form the largest number <u>using all given digits</u> and with repetition:
- Write the smallest digit in ones, next greater digit in tens place and so on till all the given numbers are arranged.
- Repeat the greatest digit in all the remaining places.

Examples:

Largest 7-digit number using 2, 5, 0 is

TL	L	TTh	Th	Н	Т	0
5	5	5	5	5	2	0



Ans- 5, 5 5, 5 2 0

- 5. To form the smallest number by repeating the digits,
- first write the digits in ascending order.
- * repeat the smallest digit (i.e. the first number) in all the places.

Remember: Its not written to use all the given digits

Examples:

Smallest 6-digit number using 9, 5, 8, 2: Here 2 < 5 < < 8 < 9

L TTh Th H T O



- 6. To form the smallest number <u>using all given digits</u> and with repetition:
- Write the largest digit in ones, next smaller digit in tens place and so on till all the given numbers are arranged.
- Repeat the smallest digit in all the remaining places.

Examples:

smallest 7-digit number using 2, 5, 8, 1 is

TL	L	TTh	Th	н	Т	0
1	1	1	1	2	5	8





Exercise – 2(F)

1. Write the smallest 6-digit number using the following digits only once.

(a) 3, 7, 5, 2, 9, 0	(b) 8, 0, 4, 1, 6, 3	(c) 9, 2, 4, 6, 5, 0
2,03,579	1,03, 468	2, 04, 569



Exercise – 2(F)

2. Write the largest 7-digit number using the following digits any number of times.

Remember: Its not written to use all the given digits



Exercise – 2(F)

3. Write the largest 6-digit number using the following digits with repetition.

Remember: Its not written to use all the given digits

(a)	7, 5, 6, 4	(b)	7, 8, 0, 1	(c)	9, 3, 1
_	7,77,777		8,88,888	_	9,99,999



Exercise – 2(F)

4. Write the smallest 7-digit number using the following digits with repetition.

Remember: Its not written to use all the given digits

	20,00,000		11,11,111		33,33,333
(a)	3, 4, 8, 2, 0	(b)	1, 9, 6, 4	(c)	3, 4, 7



HOME ASSIGNMENT:

Practice Ch-1 for the class test.

LEARNING OUTCOME:

Students are able to know how to form numbers using different digits.



THANKING YOU ODM EDUCATIONAL GROUP

