SESSION : 8

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 2

CHAPTER NAME : INDIAN NUMBER SYSTEM

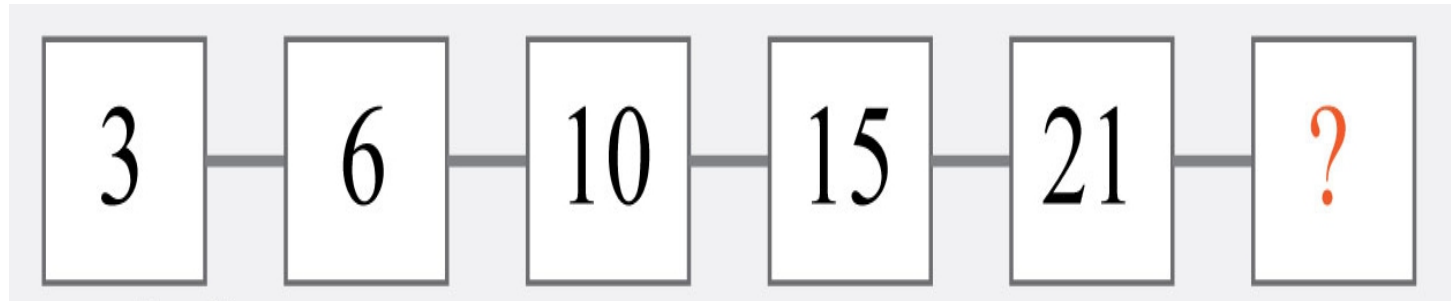**SUBTOPIC : Formation of numbers with given digits, examples**

LEARNING OBJECTIVE :

Enable the students

- To form the largest and smallest numbers using given set of digits with repetition and without repetition.

IQ Puzzle 1

Which number completes the pattern?

Ans : 28

Trick: The sequence follows a + 3, + 4, + 5, + 6 and + 7 pattern.

IQ Puzzle 2

Which number is missing ?

3	5
9	7

10	12
16	14

6	8
12	?

7	9
13	11

Ans : 10

Trick: The cells in the squares are following a + 2 pattern.

Forming the Greatest and the Smallest numbers

Greatest Number: To form the greatest number without repetition of digits, arrange the digits in descending order.

Example-1: Write the largest number using the digits 2,4,7,9,8,3 and 1 only once or without repetition

 Ans- 9 8, 7 4, 3 2 1

Smallest Number: To form the smallest number without repetition of digits, arrange the digits in ascending order.

Example-2:

Write the smallest number using the digits 3,4,7,9,8,2 and 5, without repetition .

        2, 3 4 ,5 7 9

Greatest Number:

Arrange the digits in descending order. Zero will be at last

Example-3: Write the largest number using the digits 3,6,0,2,8,and 5 only once.

Ans- 8, 6 5, 3 2 0

Smallest Number:

Arrange the digits in ascending order keeping zero at the second place from left.

Example-4: Write the smallest number using the digits 3,6,0,2,8,and 5 without repetition

2, 0 3, 5 6 8

To write the smallest or greatest number using the given digits when repetition is allowed, write the smallest or greatest number by following the given examples:-

Example-5: Write the largest and smallest number using 5, 3, 7 and 1 , repeating 1 two times and 5 three times.

Largest number-   7   5   5   5   3   1   1
Ans- 7 5, 55, 311

Smallest number-   1   1   3   5   5   5   7
Ans- 11, 35, 557

Example-6: Write the largest and smallest number using 2, 5, 0 and 6 , repeating 5 and 6 two times each.

Largest number-   6 ,6 5 ,5 2 0

Smallest number-   2 ,0 5 ,5 6 6

Example-7:Write the largest and smallest number using 3, 0, 6 and 4, repeating 3 three times

Largest number-   6   4   3   3   3   0

Ans- 6 43, 330

Smallest number-   3   0   3   3   4   6

Ans- 3, 03, 346

(3,30,346 is wrong)

LEARNING OUTCOME:

Students are able to

- **To form the largest and smallest numbers using given set of digits with repetition and without repetition.**

Complete exercise 2 B
Q. No. 5 and 6 in the notebook

THANKING YOU
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