

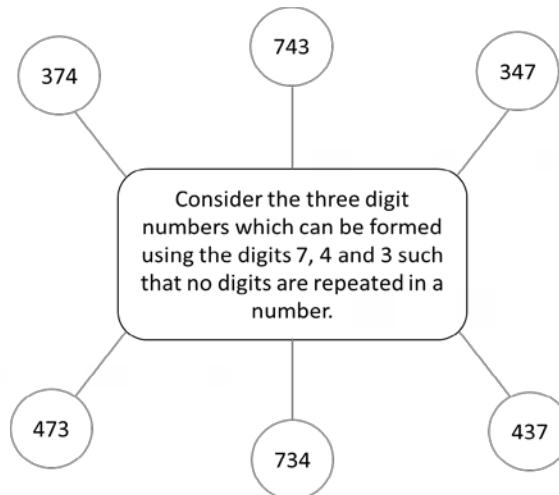
Shifting Digits (Making Numbers)



Using a single digit, a variety of numbers can be formed by arranging the digits in different orders. To make a new number from existing, we shift places of digits.

Suppose, we have two digits 2 and 5. How many numbers can be formed using the digits 2 and 5? According to their food habits we can divide food of animals in following categories.

- If digits are not repeated, the numbers formed are: 25 and 52
- If we repeat the digits then numbers formed are: 25, 52, 22 and 55



- Now, which number is the smallest and which is the largest?
- The smallest number is 346 and the largest number is 643.