

4.8 Forming Two Digit Numbers Using Given Digits

We form two digit numbers using digits, 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9.
There are two cases : They are —

(1) Without repeating the digits.

(2) With the digits repeating.

Example 1 : Form two digit numbers using the digits 2 and 3.

Answer :

Case (1) : Without repeating the digits. The numbers are 23 and 32.

Case (2) : With the digits repeating. The numbers are 22 and 33.

Example 2 : Form two digit numbers using the digits 4, 5 and 6.

Answer :

Case (1) : Without the digits repeating. The numbers are : 45, 46, 54 and 64.

Case (2) : With the digits repeating. The numbers are 44, 55 and 66.

Example 3 : Form two digit numbers using the digit 0, 1 and 2.

When we form two digit numbers, we have to place digit 0 at the place only. If we place 0 at tens place, the number will become a one digit number. e.g. 02, 01.

Case (1) : Without the digits repeating. The two digit numbers are : 10, 12, 21 and 20.

Case (2) : With the digits repeating. The two digit numbers are : 11

Exercise

1. Form two digits numbers using the digits given below :

(a) 1, 3

(b) 6, 7

(c) 8, 9

(d) 1, 2, 3

(e) 5, 6, 7

(f) 6, 7, 8

2. Find the greatest and smallest number formed by the digits :

(a) 4, 5

(b) 3, 4, 5

(c) 1, 2, 3

(d) 5, 6, 7

(e) 7, 8, 9

(f) 3, 0, 5