

RAM Maths Circle

October 5, 2024

Swami Vivekanand Vidya Mandir, Dombivli

In this session, the facilitators put forward the following problems.

Questions

- There are four numbers 1,2,3, and 4. In how many ways can we form three digit number, if no repetition is allowed? Similarly using five letters A, B, C, D, and E; how many three letter words can be formed?
- Consider the Registration number behind vehicles. In how many ways can we form the last four digits, if no repetition is allowed?
- Starting from Dombivli there are three roads to reach Kopar. From Kopar there are four roads to reach Thane. What is the total number of ways to reach Thane from Dombivli?
- Starting from school there are four roads to reach station. From station there are seven roads to reach home. Also, there are 15 roads connecting school and home directly. What is the total number of ways to reach home from school?
- There are 4 ways to reach B from A, 6 ways to reach C from A, 2 ways to reach D from A, 5 ways to reach D from B, 2 ways to reach D from C and 3 ways to reach C from B. Then, what is the total number of ways to reach D from A?

The logo for RAM Maths Circle is a circular emblem. It features a central grid of colored squares in shades of purple, green, yellow, pink, and blue. The words "RAM MATHS CIRCLE" are written in a light grey, sans-serif font along the bottom arc of the circle.