

RAM Maths Circle

December 13, 2025

Delhi Public School, Nashik

Session Overview

The second session of the Nashik Maths Circle was conducted by Mr. Prasanna Bhore, a structural engineer and mathematics enthusiast with a deep interest in number theory. The session focused heavily on collaborative problem-solving, creating an environment where students could explore mathematical concepts through direct engagement.

Collaborative Problem Solving

Students were organized into groups of five, each provided with a curated set of problems. This group dynamic encouraged peer-to-peer discussion, with Prasanna sir and the Teaching Assistants (TAs) moving between groups to provide occasional guidance and foster deeper inquiry.

Key Topics Explored

Magic Squares

One of the highlights of the session involved the study of magic squares. Rather than providing a rote method or formula, Prasanna sir led the students through an explorative journey. Students learned to construct magic squares by identifying underlying patterns and logical structures, discovering the "how" and "why" behind their formation.

Calendar Mathematics

The session also delved into the mathematics of the calendar. Students tackled various problems involving:

- Relationships between days and dates.
- Mathematical properties of months and years.
- Calculating day-of-the-week patterns over long periods.

Conclusion

The day was defined by the spirit of exploration. By moving away from traditional lectures and toward active solving, students experienced the genuine fun and satisfaction that comes from mathematical discovery.