

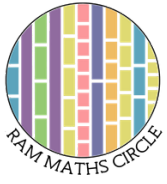
2025-26

RAM Maths Circle Chennai

APL Chapter

Report





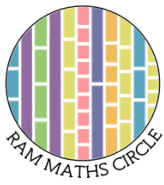
About Maths Circle

Maths Circles originated in Russia and have since spread globally, attracting students who are eager to explore mathematics beyond the standard curriculum. These circles involve weekly sessions where mathematicians and educators engage students in solving non-routine mathematical problems.

The Raising A Mathematician (RAM)'s Chennai Maths Circle – APL Chapter continued its effort during the academic year 2025-26 to nurture mathematical curiosity, collaborative problem-solving, and logical reasoning among school students.

The sessions were conducted at APL Global School, Chennai, with a strong emphasis on discussion-based learning, mathematical exploration, and guided discovery.





Summary

RAM Maths Circle Chennai - APL Chapter was conducted successfully with active student participation throughout the academic year. Sessions encouraged students to discuss ideas collaboratively, attempt challenging problems, and explore mathematics beyond procedural learning.

Selection of the students

Students were selected through a screening and application process based on mathematical aptitude, logical reasoning, curiosity, and enthusiasm for problem-solving.

Classroom structure

The sessions followed an interactive and collaborative structure:

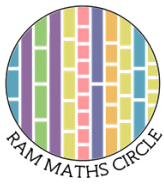
- Introduction to mathematical ideas and exploratory discussions.
- Group-based worksheet problem solving.
- Collaborative discussions among students.
- Guided facilitation by faculty members and teaching assistants.
- Reflection and presentation of multiple approaches to the same problem.

Students were encouraged to explain their reasoning, identify patterns, and construct mathematical arguments independently

Role of Faculty and Teaching Assistants

Faculty

- Faculty members guided students through exploratory mathematical discussions.
- Sessions focused on developing mathematical thinking rather than rote methods.
- Students were encouraged to approach problems creatively and communicate their ideas clearly.



Teaching Assistants

- Teaching Assistants supported students during problem-solving sessions.
- TAs helped facilitate group discussions and encouraged students to persist through challenging problems.
- They provided hints and guided questioning rather than direct solutions.

Topics Covered

Students explored a wide range of mathematical topics during the 2025-26 sessions:

- Number Theory
- Geometry
- Logical Reasoning
- Combinatorics
- Sequences and Patterns
- Mathematical Games and Strategies
- Counting Principles
- Algebraic Thinking
- Problem Solving Techniques
- Visual Mathematics
- Olympiad-style Problems

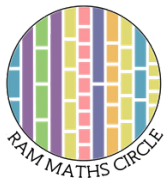
Detailed session-wise synopsis reports were maintained for every session and documented the mathematical ideas, activities, and discussions conducted. The session reports are uploaded here: <https://www.mathscircle.org/chennai-chapter-sessions>.

Assignments

- Assignments and exploratory worksheets were provided regularly.
- Students attempted problems independently and discussed selected solutions during subsequent sessions.
- Assignments focused on developing reasoning, creativity, and persistence.

Appreciation and Recognition

- Students who actively participated and demonstrated strong problem-solving abilities were appreciated during sessions.
- Collaborative learning and mathematical communication were strongly encouraged.
- Certificates of participation and completion were awarded at the end of the programme.



Meet Our Team

FACILITATORS AND TEACHING ASSISTANTS



KAVITA SUTAR

FACULTY

A mathematician and consultant in Scientific Computing, former Associate Professor, and Ph.D. holder from Northeastern University.



HARI PRASAD

GUEST SPEAKER

A former control valve application engineer who transitioned into mathematics education. He is passionate about mathematical thinking, problem solving, and making mathematics an engaging and enjoyable for students.



SADHANANDH

TEACHING ASSISTANT

Currently pursuing PhD at CMI and works in the areas of combinatorics and representation theory. He actively participates in math outreach activities. He especially enjoys having math conversations and discovering math together with children.



VIGHNESHINI BHARATHI

TEACHING ASSISTANT

A Mathematics PhD scholar at Krea University, currently studying representation theory. She is passionate about teaching and enjoys playing badminton in her free time.

Core Team



SUBHA HARIHARAMAHADEVAN CHAPTER HEAD

She is a former computer science engineer with eight years of experience, now an alternative educator and parenting facilitator.



CHANDRAMOULEE SUBRAMANIAM G PARENT VOLUNTEER

Finance leader with 25+ years of global experience across Internal Audit, FP&A, Controlling, and Management Reporting. CA (India) and CPA (USA, non-practicing), with leadership roles at GE, Deutsche Bank, and Shell. Currently leading a 300+ members finance community supporting the Trading business across Chennai, Manila, and Krakow

We would like to acknowledge and express our gratitude to the core team. Their active involvement and support throughout the course played a crucial role in the smooth execution of the programme.

We also thank all faculty members, teaching assistants, students, and parents who contributed to making this initiative a success.

Supporters

- APL Global School continued to provide infrastructure support and venue facilities for conducting the sessions.
- RAM Chennai Maths Circle also benefited from the continued support of parent volunteers and the wider RAM community.





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