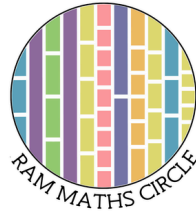


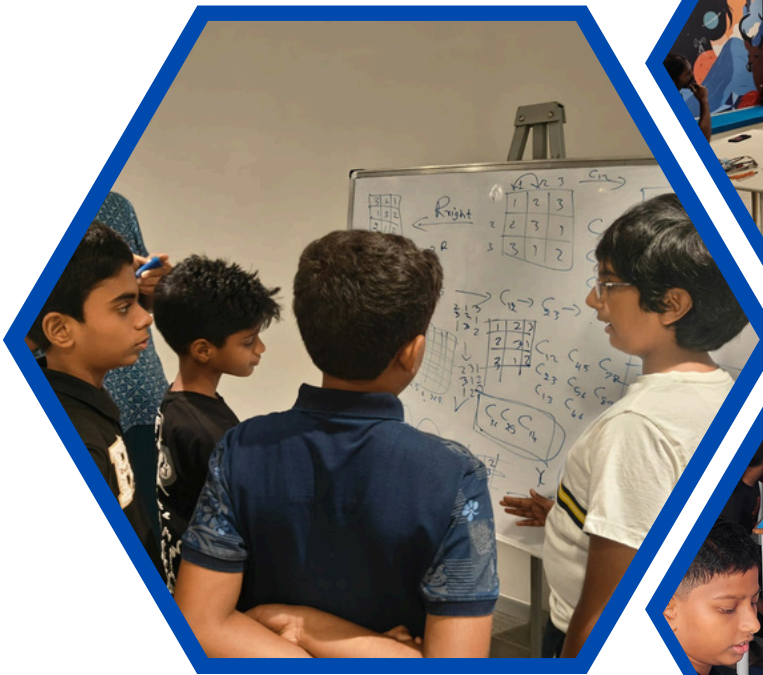
2025-26



RAM Maths Circle Chennai

Krea Chapter

Report

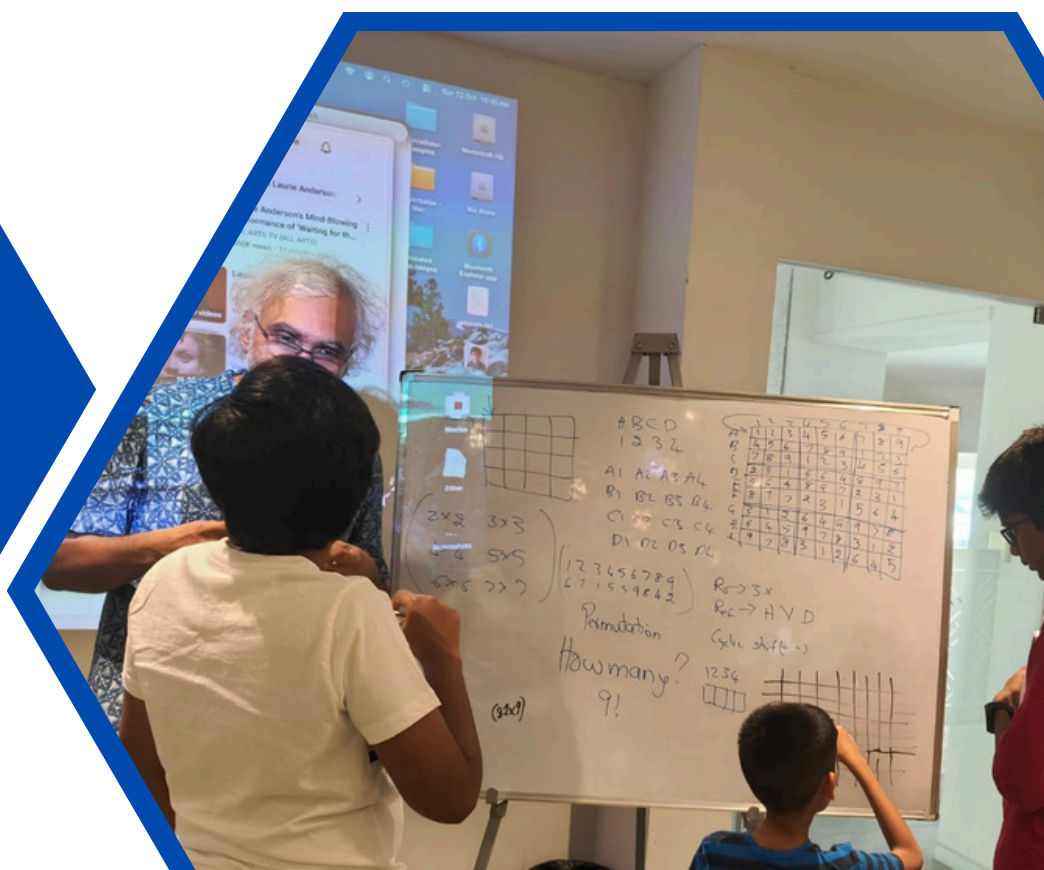


About Maths Circle

Math Circles originated in Russia and later expanded across different countries as spaces where students could explore mathematics beyond school textbooks through collaborative problem-solving and discussion.

The Raising A Mathematician (RAM)'s Chennai Maths Circle – Krea Chapter continued this initiative during the academic year 2025-26 by providing students with opportunities to engage deeply with mathematical ideas through interactive sessions, puzzles, and exploratory activities.

The Krea Chapter focused on creating a supportive mathematical community where students could reason independently, discuss ideas freely, and develop confidence in tackling non-routine problems.



Summary

RAM Maths Circle Chennai - Krea Chapter, witnessed an enthusiastic participation from students across different grades. Sessions focused on exploration, reasoning, and collaborative mathematical thinking.

Selection of students

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

Classroom structure

The classroom structure encouraged active participation and collaborative learning:

- Students worked in small groups during sessions.
- Mathematical ideas were introduced through problems and exploratory activities.
- Group discussions and presentations formed an important part of every session.
- Faculty and teaching assistants guided students through questioning and mathematical conversations.
- Students were encouraged to try multiple approaches and explain their reasoning.



Role of Faculty and Teaching Assistants

Faculty

- Faculty members facilitated mathematical exploration and discussion.
- Sessions emphasized reasoning, creativity, and conceptual understanding.
- Students were guided towards discovering mathematical ideas independently.

Teaching Assistants

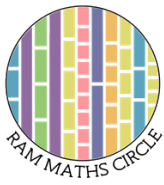
- Teaching Assistants supported collaborative discussions and problem-solving activities.
- TAs provided hints and encouraged students to articulate their mathematical thinking clearly.
- They played an important role in maintaining an engaging and supportive learning environment.

Topics Covered

The Krea Chapter sessions explored several interesting mathematical themes and problem-solving areas:

- Mathematical Problem Solving and Proof
- Combinatorics and Counting
- Principle of Inclusion-Exclusion
- Permutations and Group Theory
- Graph Theory and Eulerian Paths
- Number Theory and Divisibility
- Modular Arithmetic and Congruences
- Recurrence Relations and Recursion





- Mathematical Induction
- Sequences and Series
- Fibonacci Numbers and the Golden Ratio
- Pascal's Triangle and Binomial Coefficients
- Set Theory and Infinite Sets
- Countability and Cantor's Diagonal Argument
- Equivalence Relations and Partitions
- Euclidean Geometry and Geometric Proofs
- Vectors and Linear Algebra
- Complex Numbers and Their Geometric Interpretation
- Symmetry, Invariants, and Extremal Principles
- Mathematical Puzzles and Applications

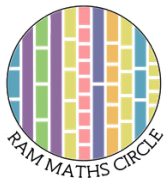
Session synopsis documents were maintained regularly to record mathematical activities, discussions, and topics explored during each session. The session reports are uploaded here: <https://www.mathscircle.org/chennai-chapter-sessions>.

Assignments

- Students received assignments and exploratory worksheets based on session topics.
- Students discussed approaches and solutions during later sessions.
- Assignments encouraged mathematical experimentation and independent thinking.

Appreciation and Recognition

- Students who actively participated and demonstrated persistence and creativity were appreciated during sessions.
- The programme fostered a supportive learning culture where students felt comfortable attempting challenging problems.
- Certificates of participation and completion were awarded at the end of the programme.



Meet Our Team

FACILITATORS



**DR. SRIKUMAR K.
SUBRAMANIAN**

Visiting Faculty of Computer
Science, Krea University



HURUDAYA N.

Undergraduate Student,
Krea University



DR. SOUMYA DEY

Assistant Professor in
Mathematics at Krea University



DR. RISHI VYAS

Assistant Professor in
Mathematics at Krea University

Core Team



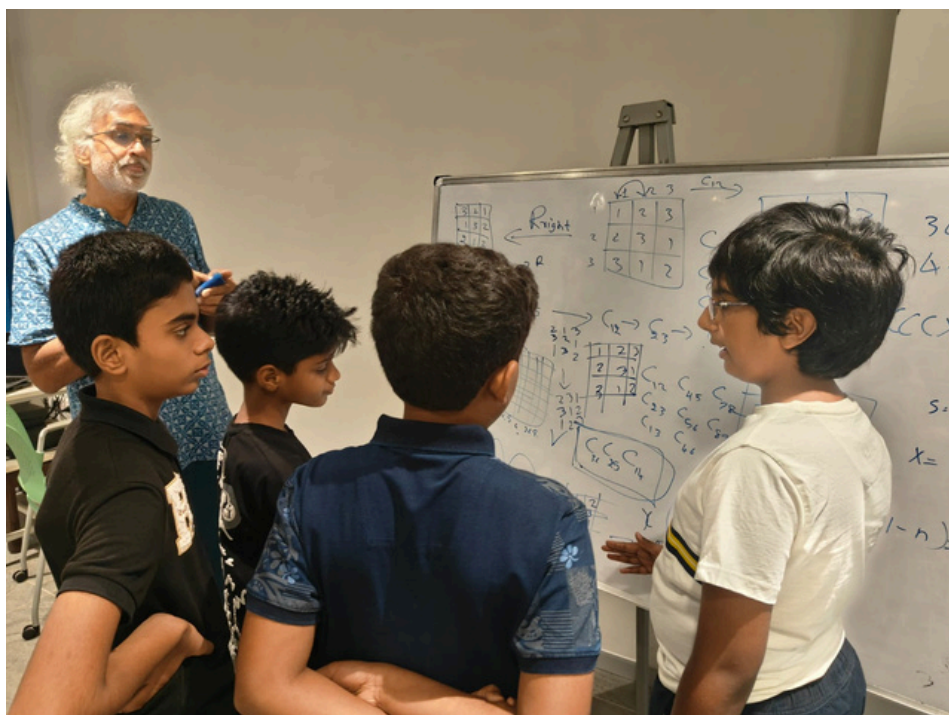
KANNAN K.
CHAPTER HEAD

Mr. Kannan K. is a senior professional working in the Tech industry and also a parent volunteer at RAM. He volunteers his time every week to manage the logistics and operations of RAM Maths Circle Chennai - Krea Chapter.

Supporters



Krea University provided the beautiful classroom space for conducting the Maths Circle sessions.





Age Group	Number of People (Millions)
18-24	25
25-34	35
35-44	50
45-54	70
55+	95