



Cheenta Math Olympiad Program

Level 1



cheenta.com

since 2010

Passion for Mathematics

This program is useful for Math Kangaroo,
Australian Math Competition, MOEMS

Success Stories since 2010



Aryan Kalia

Top 1% globally in American Math Competition,

Attended Math Olympiad Program and School Research Program at cheenta

Attended Student internship program at cheenta

Going to Harvard University in 2022



Sambuddha Majumdar

Scotland Math Olympiad Awardee

Attended Math Olympiad Program at cheenta

Attended Student internship program at cheenta

University of Edinburgh



Anushka Aggarwal

Youngest Indian National Math Olympiad awardee, European Girls Math Olympiad awardee

Attended Math Olympiad Program at cheenta

Attended Student internship program at cheenta

Going to MIT (Massachusetts Institute of Technology) in 2022



Akshaj Kadaveru

American Math Competition, AIME and USAJMO awardee

Attended Math Olympiad Program at cheenta

MIT (Massachusetts Institute of Technology)

Curriculum driven by problem solving



48 weeks program, 7 modules



Spatial Patterns I-θ

7 weeks

- Polygons (2D)
- Making polygons in GeoGebra
- Knowing a Platonic solid (3D)
- Making a cube in GeoGebra, drawing points, line segments
- Paper Model of a Cube
- Making tetrahedrons and some other 3D figures in Geogebra
- Review and Evaluation



Spatial Patterns I-δ

7 weeks

- Basic Idea about edges, Vertices in Different Shapes in Geogebra
- Knowing angles with the help of Rotation, Geogebra
- Missing shapes in a pattern list
- Coloring paper cubes and tetrahedron, counting edges, vertices and faces
- Lines of Symmetry in Different Shapes
- Reflection, demonstration in GeoGebra
- Review and Evaluation



Numerical Pattern I - θ

7 weeks

- Number sequences, guessing the next number I
- Number sequences, guessing the next number II
- Counting paths in grids
- Sieve of Eratosthenes I
- Sieve of Eratosthenes II
- Counting paths in platonic solids using Geogebra
- Review and Evaluation

Curriculum continues



Numerical Pattern I - δ

7 weeks

- Properties of Number line
- Representation of Fractions in Number line
- Folding papers to understand fractions - $1/2, 1/4$
- Breaking the numbers using factors
- Multiplication using Tree Diagram
- Division using Tree Diagram
- Review and Evaluation



Mathematical Imagination I

6 weeks

- Compass - pencil construction of circle
- String - pencil construction of circle
- Circle in GeoGebra
- Measuring chords using GeoGebra
- Concept of angle
- Review and Evaluation



Arithmetics I - θ

7 weeks

- Cryptarithmic
- Caesar Cipher
- Substitution Cipher
- Addition using geometry
- Subtraction using geometry
- Multiplication using geometry
- Review and Evaluation



Arithmetics I - δ

7 weeks

- Geometry of fraction
- Ratio of numbers
- Understanding fractions as division
- Understanding fractions as Comparison
- Concept of Odd and Even numbers
- Parity
- Review and Evaluation

Taught by Olympians and Researchers from leading universities

Since 2010 Cheenta has evolved into a Gurukul. Our students have attended leading universities in India such as Indian Statistical Institute, Chennai Mathematical Institute, TIFR, IITs and universities abroad such as Harvard, MIT, Oxford, Edinburgh to name a few. Some of them returned as teachers for the next generation of learners. And the pursuit of excellence continues.



**Cheenta Team has 40+ members.
Here are some of the leaders.**



Srijit Mukherjee
BStat and MStat from Indian
Statistical Institute (India)
Director at Cheenta



Dr. Ashani Dasgupta
PhD from University of
Wisconsin-Milwaukee (USA)
Founder - Director at Cheenta



Dr. Sankhadip Chakraborty
PhD from IMPA, BSc. Math
from Chennai Mathematical
Institute (India),
Director at Cheenta



Dr. Anirban Majumdar
PhD from ENS Paris-Saclay,
France on Theoretical
Computer Science, B.Sc.-
M.Sc. from Chennai
Mathematical Institute



Swarnabja Bhowmick
B.Tech from Calcutta University
on Computer Science with
multiple IEEE publications on
Artificial Intelligence and Machine
Learning



Namrata Dutta
BSc. in Physics and MSc in
Electronics from University of
Calcutta.

Contest Calendar for beautiful problem solving

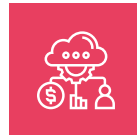
Cheenta students think of Math Olympiads as **milestones**. The end goal of the program is to fall in love with mathematics and develop great problem solving skills. Milestones help us to stay in track.

Not all math contests are equal. Here is a list of contests that are suitable and most effective at this level of learning.

Our success centre will keep you updated about registration deadlines of these contests and other opportunities



Math Kangaroo



**Australian Math
Competition**



MOEMS

Refund policy

since trust is the cornerstoner of education

Within 1 week of admission, if you wish to withdraw from the course due to dissatisfaction with our offerings, we will start your **[full refund - service fee of ₹1000 (India) or US\$20 (Rest of the World) - Transaction fee if any]** process provided **all four of these activities** are done on your part:

- Attended live full length lecture session for full time (not video recording)
- Attempted the assignments during that period
- Attended at least one 1-on-1 session
- Used the Cheenta Support forum for doubts
- The Refund reason should be associated with the coursework, any personal reason won't be counted & hence the refund request will be nullified.



The refund process is usually completed within 8 weeks of the refund request. We will refund the [full refund - service fee of ₹1000 (India) or US\$20 (Rest of the World) - Transaction fee if any], if you begin the refund process within 1 week (see the first point).

If a refund request is not placed within the first week, or if such a request is placed without completing steps a, b, c d, or e or if the refund request is made due to personal reasons, then we won't be able to process any refund.

Thank You

Passion for Mathematical Science

Let us know if you need more information.



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