



Cheenta Math Olympiad Program

Level 4



cheenta.com

since 2010

Passion for Mathematics

This program is useful for Math Kangaroo, MOEMS, AMC 8, Australian Math Competition, Mathcounts

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**



Number Theory MK

6 weeks

- Divisibility and Remainders - I
- Divisibility and Remainders - II
- Divisibility and Remainders - III
- Mathematical Games - I
- Mathematical Games - II
- Review and Evaluation



Combinatorics MK - θ

7 weeks

- Intuitive Principles I
- Intuitive Principles II
- Parity - Alternations
- Parity - Partitioning into Pairs
- Parity - Odd and Even
- Addition and Multiplication Principles
- Review and Evaluation



Combinatorics MK - δ

7 weeks

- Permutations and Factorials
- Counting Principles
- Pigeon Hole Principle I
- Pigeon Hole Principle II
- Graphs I
- Graphs II
- Review and Evaluation



Geometry MK - θ

7 weeks

- Angles, Perpendicular Lines, Polygons
- Isosceles Triangle and symmetry
- Congruence Tests for triangles
- Triangular Inequality I
- Triangular Inequality II
- Triangular Inequality III
- Review and Evaluation

Curriculum continues



Geometry MK - δ

7 weeks

- Congruence Tests for triangles
- Inequalities in triangles
- Right triangles
- Segment and Angle Bisectors
- Basic Construction Problems
- Parallel Lines
- Review and Evaluation



Algebra MK - θ

7 weeks

- Polynomials I
- Polynomials II
- Factoring I
- Factoring II
- Rational Expressions
- Division of Polynomials and Remainder
- Review and Evaluation



Algebra MK - δ

7 weeks

- Exponentiation, Big and Small Numbers
- Multiplication of powers
- Square of Sum and Difference of Squares
- Cube of sum formula
- Binomial fourth power
- Pascal's Triangle
- 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



Shayeef Murshid
B.Math and M.Math from ISI
INMO Merit List
Doctoral Scholar at Indian
Statistical Institute



Sanu Shaw
B.Sc. in Mathematics Honours
from the University of
Calcutta
Secured an All India Rank of
15 in the ISI Entrance Exam
(2023).



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



Deepan Dutta
Bachelor of Science from the
University of Calcutta

Refund policy

since trust is the cornerstoner of education

Within 2 weeks 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 sessions for full time (not video recording)
- Attempted the assignments during that period
- Attended at least two 1-on-1 session
- Used the Cheenta Support forum for doubts
- The Refund reason should be associated with the coursework; personal reasons 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 2 weeks (see the first point).

If a refund request is not placed within the second 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.

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



**American Math
Competition 8**



Math Kangaroo



**Australian Math
Competition**



**Mathcounts and
MOEMS (USA)**

Thank You

Passion for Mathematical Science

Let us know if you need more information.



Email

support@cheenta.com

Phone



+91 760 501 9991/ 92



+1 414 220 0191

Address

2nd Floor, 22, Lake Place Rd, Kolkata, West Bengal 700029, India

Website

www.cheenta.com
