



Cheenta Advanced Math Program

Level 9



cheenta.com

since 2010

Passion for Mathematics

This program is useful for AMC 10, AMC 12, ISI-CMI Entrance, PRMO-IOQM, Singapore Math Olympiad, UKMT

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, 10 modules



Algebra IA - θ

5 weeks

- Polynomials - Week 1
- Polynomials - Week 2
- Polynomials - Week 3
- Complex Numbers - Week 1
- Complex Numbers - Week 2



Algebra IA - δ

5 weeks

- Inequalities
- Binomial Theorem - Week 1
- Binomial Theorem - Week 2
- Sequence and Series - Week 1
- Sequence and Series - Week 2



Combinatorics IA - θ

4 weeks

- Permutation and Combination - Week 1
- Permutation and Combination - Week 2
- Multinomial Coefficients
- Binomial and Multinomial Coefficients



Combinatorics IA - δ

4 weeks

- Pigeon Hole Principle and Ramsay Numbers - Week 1
- Pigeon Hole Principle and Ramsay Numbers - Week 2
- Principle of Inclusion and Exclusion - Week 1
- Principle of Inclusion and Exclusion - Week 2

Curriculum continues



Number Theory IA - θ

5 weeks

- Divisibility - Week 1
- Divisibility - Week 2
- Congruency of Triangles
- Theorems of Fermat, Euler, Wilson and Lagrange - Week 1
- Theorems of Fermat, Euler, Wilson and Lagrange - Week 2



Number Theory IA - δ

4 weeks

- Greatest Integer Function
- Arithmetic Functions
- Pythagorean Triples
- Representation of a Positive Integer



Geometry IA - θ

5 weeks

- Similar Triangles - Week 1
- Similar Triangles - Week 2
- Congruence of triangles
- Cyclic Quadrilaterals
- Additional Properties of Triangles in Geometry



Geometry IA - δ

5 weeks

- Properties of Triangles in Geometry A
- Properties of Triangles in Geometry B
- Constructions
- Gems in Geometry - Week 1
- Gems in Geometry - Week 2



Coordinate Geometry IA

4 weeks



Trigonometry IA

7 weeks

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



AR Sricharan
BSc. Math, M.Sc. Computer
Science from Chennai
Mathematical Institute (India).
Pursuing PhD in University of
Vienna

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 10 [AMC
10] and AIME**



**NMTC Junior and
Intermediate**



**IOQM and PRMO (First
Level of Math
Olympiads in India)**



**University of
Waterloo Contests
(for Canada)**



UKMT (for UK)



SMO (for Singapore)

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:

- a. Attended live full length lecture session for full time (not video recording)
- b. Attempted the assignments during that period
- c. Attended at least one 1-on-1 session
- d. Used the Cheenta Support forum for doubts
- e. 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.



Email

support@cheenta.com



Phone



+91 760 501 9990



+1 414 220 0191



Address

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



Website

www.cheenta.com
