



# Cheenta

# Math Olympiad Program

## Level 5



**cheenta.com**

since 2010

**Passion for Mathematics**

This program is useful for AMC 8, IOQM, UKMT, University of Waterloo Contests, Mathcounts, Australian Math Competition

# 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**



## Algebra A8 - $\theta$

7 weeks

- Algebraic Identities
- Binomial Theorem
- Polynomials, Remainders, Interpolation
- Progression
- Quadratic Equation
- Vieta's theorem
- Review and Evaluation



## Algebra A8 - $\delta$

7 weeks

- Quadratics and Graphs
- Quadratic Inequalities
- Extremas
- Symmetric Equations
- Inequalities
- Maximum and Minimum
- Review and Evaluation



## Combinatorics A8 - $\theta$

7 weeks

- Combinations
- Pascal's Triangle
- Balls and Walls
- Invariants
- Colorings
- Remainders and Invariants
- Review and Evaluation



## Combinatorics A8 - $\delta$

7 weeks

- Isomorphism and Trees
- Euler's Theorem
- Oriented Graphs
- Parity
- Pigeon Hole Principle
- Mathematical Games
- Review and Evaluation

# Curriculum continues



## Geometry A8 - $\theta$

7 weeks

- Triangular Inequality
- Rigid Motion
- Angles
- Area
- Quadrilaterals
- Circles and Chords
- Review and Evaluation



## Geometry A8 - $\delta$

7 weeks

- Line and a Circle
- Two circles
- Angles in a Circle
- Mensuration
- Similarity of triangles
- Coordinates
- Review and Evaluation



## Number Theory A8 - $\theta$

6 weeks

- Induction
- Congruence
- Diophantine Equations
- Number Bases
- Divisibility Tests
- 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



**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

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**American Math  
Competition 8 [AMC 8]**



**NMTC Gauss**



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



**Mathcounts and  
MOEMS (USA)**



**Math Kangaroo**



**UKMT**



**Australian Math  
Competition**

# 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

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## Passion for Mathematical Science

Let us know if you need more information.



### Email

[support@cheenta.com](mailto:support@cheenta.com)

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### Phone

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 +1 414 220 0191

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### Address

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### Website

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