



IOQM Year 1 - Level 5 (Advanced)

Cheenta Academy for
Olympiad & Research

cheenta.com

Since 2010

Passion for Mathematical Science & Research

Program for IOQM [Year 1]. Advanced level of
Level 5

Success Stories Since 2010

IOQM Awardee 2024

- Aditya Punatar
- Saket Anand Gudadhe
- Vihaan Shah
- Kiaan Sawant
- Ritam Das
- Ambar Agarwal
- Saisha Ganjiwale
- Adhiraj Singh Anand
- Divij Gupta
- Soham Bharati
- Shamik Saraswati
- Krishiv Mohan
- Souradip Das
- Vismayah A. Mathew
- Raghav Pai
- Jayaditya Gupta
- Avigyan Chakraborty
- Alivia Roy
- Advitya R
- Nikhil Ganesh Chaudhury
- S. Ashwin
- Reyaansh Agrawal
- Ayaan Kalra
- Arnav Tayal
- Neel Avinash

[Click Here to know the Strategy for IOQM](#)



[Click Here](#)

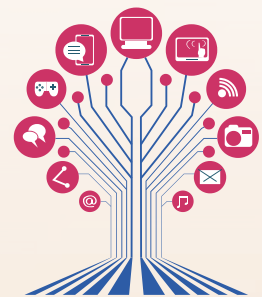
[Watch how Aryan Prakash cracked IOQM and other Math Olympiad examinations](#)

What is Included in the Program?



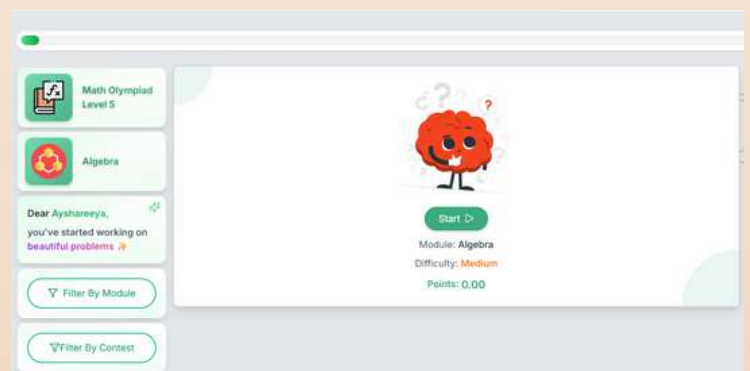
6 Live Interactive Classes... Every Week

- Concept Class
- Problem Solving Workshop 1
- Problem Solving Workshop 2
- Problem Solving Workshop 3
- Problem Solving Workshop 4
- Problem Solving Workshop 5



Software Access

- Class Notes
- Class Recordings
- Practice Problems Daily
- Weekly Assignments
- Tests
- Mock Tests
- Student Progress Report



Curriculum

Module 1



Geometry I9 0

7 Lessons



Triangular Inequality



Rigid Motion



Angles



Area



Angles in Polygons, Quadrilaterals



More on Quadrilaterals



Review and Evaluation

Module 2



Geometry I9 δ

7 Lessons



Line and a Circle



Two Circles



Angles in a Circle



Solid Shapes and Volumes



Similarity of Triangles



Introduction to Coordinate Geometry



Review and Evaluation

Module 3



Combinatorics I9 0

6 Lessons



Combinations



Pascal's Triangle



Balls and Walls



Invariants, Remainders and Invariants



Colorings



Review and Evaluation

Module 4



Combinatorics I9 δ

7 Lessons



Isomorphism and Trees



Euler's Theorem



Oriented Graphs



Parity



Pigeon Hole Principle



Mathematical Games



Review and Evaluation

Module 5



Algebra I9 0

5 Lessons



Algebraic Identities, and Binomial Theorem



Polynomials, Remainders



Vieta's Theorem



Progression



Review and Evaluation

Module 6



Algebra I9 δ

6 Lessons



Quadratic Equation and its Graphs



Extremas : Maximum and Minimum



AM-GM Inequality



Symmetric Equations



Inequalities, Wavy Curve Method



Review and Evaluation

Module 7



Number Theory I9

6 Lessons



Number Bases



Divisibility Tests



Mathematical Induction, Concept of GCD



Division Algorithm, Euclidean Algorithm,
Congruence



Diophantine Equations



Review and Evaluation

Module 8



Trigonometry I9

4 Lessons



Introduction to Trigonometry : Trigonometric Ratios (0 to 90)



Trigonometric Identities



Trigonometric Ratios of Sum of Two Angles, and Multiples Angles



Sub-multiple angles, Sine and Cosine Rule

Taught by Olympians and Researchers from leading universities

Since 2010 Cheenta has evolved into a Gurukul. Our students are in 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



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)



Raghunath J.V.

B.Tech and M.Tech from IIT Chennai.
Math Olympiad Coach at Cheenta.
INMO and IMO Trainer.



Deepan Dutta

Bachelor of Science from the
University of Calcutta

Cheenta Academy for Olympiad & Research

Outstanding Mathematical Science Programs. Since 2010.



Email

support@cheenta.com



Phone / Whatsapp



+91 760 501 9991



+1 414 220 0191

Address

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



Website

www.cheenta.com
