



**FREQUENTLY  
ASKED  
QUESTIONS**

**FAQ**

# MOTP - 2

**MATH OLYMPIAD TRAINING PROGRAM -2**

An intense six month training program for students  
who have cleared IOQM and aspiring for INMO



## **What is MOTP-2?**

The Math Olympiad Training Program Level – 2 (MOTP-2) is an intense online training program conducted by the senior faculty at RAM Foundation on advanced topics in Olympiads. By Olympiads, we mean the Regional Mathematics Olympiad, Indian National Mathematics Olympiad, etc. for high school and higher secondary school students.

## **Who can apply for this course?**

The course is meant for students who are confident in clearing an exam like Pre-RMO and certain about doing well in exams like RMO. To get a sense of the kind of questions that students ought to be comfortable doing, refer to a sample paper of RMO on this link. <https://olympiads.hbcse.tifr.res.in/how-to-prepare/past-papers/>. This course may not help students who are very new to the RMO kind of preparation. For RMO preparation, you can apply for our Math Olympiad Training Program Level – 1 (MOTP – 1).

## **I am already doing the MOTP - 1 program and how is this different?**

The MOTP - 1 program is focused on helping students prepare for the RMO, which is the second stage in the series of exams that lead up to the IMO. The MOTP - 2 will focus on advanced topics in the stages ahead of RMO. The leap in difficulty between the RMO and INMO is quite huge.

## **Should I continue with MOTP - 1 or should I register for MOTP - 2?**



If you found the course material in MOTP - 1 challenging and struggled with the assignments, we suggest you repeat the course to build a strong foundation. If not, then you can register for MOTP-2. The questions in the Olympiad exams require strong analytical skills and a strong foundation in Mathematics on topics that are usually not covered in the school syllabus. It is common for students to spend 1-3 years preparing for the RMO before venturing into INMO preparation.

### **What is unique about RAM's MOTP-2 program?**

One of the many distinguishing factors of the MOTP-2 program is the faculty. The course is conducted by faculty with years of experience in Olympiad training under whom many students have excelled in Olympiads.

### **What is the prerequisite required to join MOTP-2?**

The areas covered in Olympiads are arithmetic of integers, geometry, quadratic equations and expressions, trigonometry, co-ordinate geometry, the system of linear equations, permutations and combination, factorization of polynomial, inequalities, elementary combinatorics, probability theory and number theory, finite series, and complex numbers, and elementary graph theory. The major areas from which problems are given are algebra, combinatorics, geometry, and number theory. The problems under each topic involve a high level of difficulty and sophistication. The difficulty level increases from RMO to INMO to IMO.

A passion to learn, ability to persevere are the main prerequisites for this course. More often, the topics will need intense contemplation to understand and internalise. Continuous practice in problem solving is a must. While the course is challenging it is also fun. You will get exposed to how a Mathematician thinks and discovers.



### **How much work is expected of the student?**

The students will be given assignments and they would be expected to give their best on the assignments. Some of the problems might take days, weeks or even more than a month to arrive at the answer. Some, even beyond that. That is not because the student is weak but rather the problems are quite challenging. Solutions may not be presented easily because the aim is not to look at a solution but to struggle to find a solution. Through the process, students will learn to deal with frustration and develop patience and perseverance to deal with problems. The student can expect to spend at least 5-6 hours per week to do well on the homework.

### **What day/ time is the class?**

The session will be once a week on Fridays from 7.00 pm to 9.00 pm (IST). The session will run from July to December. The first session will be on July 20, 2022.

### **Do colleges in India and abroad give preference to students who have participated in the Olympiads?**

Institutes like CMI and ISI in India do give a preference for students who do well in INMO. While applying to colleges outside India, the ranks in RMO or INMO are good ways to signal one's ability in Mathematics.

### **How will the live sessions be conducted?**

The sessions will be conducted on the online platform 'Zoom'.



### **Can classes be rescheduled in case of an emergency at the students' end?**

This won't be possible because it won't be a one-on-one session. All sessions will be recorded and uploaded in the Google Classroom so that students can go through the recording if they miss any session.

### **Will there be doubt clarifying sessions?**

Doubts clearing sessions will be offered periodically.

### **Will I get 1 on 1 attention?**

Being an online session with a group of students, it won't be possible to give 1 on 1 attention. However, given the small class size, students can expect the session to be personalised. Also, the strong peer group will also help in collaborative learning sessions.

### **What is the course fee?**

The foundation runs on donations. There is a donation of INR 20,000 that the donor can make towards the foundation for sponsoring one student. Note that this is not a course fee but a donation for which you will receive an 80G tax exemption receipt. Since it is a donation, it won't be refundable.



### **How to register for MOTP-2?**

To register for MOTP-2, kindly register the student on <https://app.raisingamathematician.com/login> before the deadline. Your registration will be considered as complete only after the payment for the course is done in full.

### **What is the mode of payment?**

Online. Once you attend the orientation session and decide to go ahead with the program, you need to make the payment through the payment gateway that will be provided to your account that you will create on <https://app.raisingamathematician.com/login> when you register. The payments you make are donations towards the foundation for which you will receive an 80G tax exemption receipt. Since it is a donation, it won't be refundable.

### **Is there any provision to withdraw in between? Will I get a refund if I do?**

As mentioned two points earlier, the payment will be a donation and hence cannot be refunded.