



Institute of Mathematics Education

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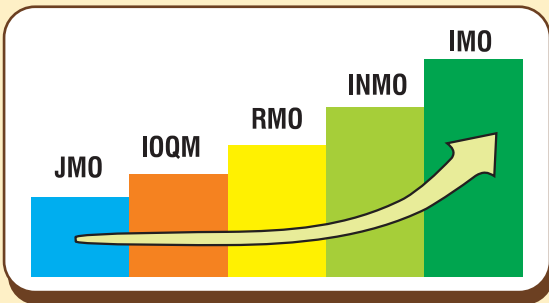
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यथा शिखा मयूराणां ।
नागानां मणयो यथा ॥
तद्वद् वेदांगशास्त्राणां ।
गणितं मूर्धनि स्थितम् ॥

Just as the crest of the peacock and the gem of the cobra, stays right at the top, similarly study of Mathematics is the topmost among the study of all Vedas and Shastras.

All India Junior Maths Olympiad



Mathematical Competition
(Academic Year 2024-25)

Junior Maths Olympiad 2025

**For Class V, VI, VII & VIII Students
(ICSE, CBSE, State Board Schools)**

An Appeal

Dear Principals, Maths Teachers & Parents,

Greeting from the Institute of Mathematics Education!

We, at IME, have been dedicated to the cause of nurturing excellence in Mathematics, for several years now. Our endeavor is to stimulate the spirit of enquiry, innovation and creativity amongst children through activities that make Mathematics an enjoyable and interesting pursuit. One such activity that the IME conducts is the Junior Maths Olympiad (JMO).

JMO serves as a strong preparatory foundation for the Indian Olympiad Qualifier in Mathematics (IOQM), conducted by Homi Bhabha Centre for Science Education, Government of India. So far 60355 students have appeared for MAT and 9271 for JMO. One such JMO Gold Medalist student represented India in International Olympiads of Physics and Astronomy and won laurels for the country. You will find more about Olympiads on the last page of the brochure.

We are aware that you always take several initiatives in making learning interesting and meaningful for students. We look forward to your support, in our endeavor to ignite the spark of curiosity and learning in young minds.



For Std. V / VI & VII / VIII Preliminary Exam

Maths Aptitude Test - 2024 (All India Level)

Date of Exam	Day	Time	Last day of Registration	Tentative Date of Result	Registration Fee
03 rd Aug. 2024	Sat.	2 p.m. to 4 p.m.	06 th July 2024	On or before 25 th Aug. 2024	₹ 350/-
31 st Aug. 2024	Sat.	2 p.m. to 4 p.m.	20 th July 2024	On or before 25 th Sept. 2024	

Note : Schools can choose any one date for their students.

In case a student wishes to appear for the examination but his/her respective school is not participating, then such students will appear as Private Students and should contact IME office for more details at **Phone** : 8104011965 or **E-mail** : imethane@gmail.com

Students will appear for exam in their respective schools.

Private Students will appear for the exam at the centers assigned by IME.

Result will be emailed to the schools.

For Private Students, result will be declared on the website www.aiime.org



For Std. V / VI & VII / VIII Final Exam

Junior Maths Olympiad - 2025 (All India Level)

Students scoring 50 and more marks in MAT 2024 will be eligible for JMO 2025.

Date of Exam	Day	Time	Last day of Registration	Tentative Date of Result	Registration Fee
2 nd Feb. 2025	Sun.	10 a.m. to 12 noon	20 th Dec. 2024	On or before 15 th Mar. 2025	₹ 400/-

Note : ALL students will appear for the exam at the centres assigned by IME.

MAT : Maths Aptitude Test

Eligibility : Students studying in standard 5th, 6th, 7th and 8th

Examination Details : MAT exam is normally conducted 2 times that is in the first and last week of August. Student may opt for any one attempt.

MAT exam is conducted in 2 groups.

- **Primary Group** : Students of Std. 5th and 6th
- **Higher Primary Group** : Students of Std. 7th and 8th

MAT Question Paper (Primary and Higher Primary Group)

- Question paper consists of **50 Multiple Choice Questions**.
- Each question carries **4 options** of which only one is correct.
- Each question carries **two marks**.

- There is **no negative marking** for wrong questions.
- Maximum marks are 100.
- First 45 questions are of easy to moderate level of difficulty.
- Last 5 questions are of higher level of difficulty.
- Time duration is 2 hours.
- Medium of examination is English.

Syllabus : Primary Group (Std. 5th and 6th)

Study of Numbers, Basic Operations on Numbers, Even, Odd, Prime and Composite Numbers, Tests of Divisibility, G.C.D. and L.C.M., Fractions, Decimal Fractions, Metric Measures, Roman Numerals, Time, Equality, Inequality and Use of Letters, Calendar, Simplification of Expression, Unitary Method, Perimeter and Area, Profit and Loss, Percentage.

Reference Books : Published by IME (Std. 5th and 6th)

- Study book
- Past year MAT papers (Topic wise) 2023 - 2011

Syllabus : Higher Primary Group (Std. 7th and 8th)

Operations on Numbers, G.C.D. and L.C.M., Ratio and Proportion, Percentage, Profit and Loss, Simple and Compound Interest, Average, Distance, Speed and Time, Time and Work, Squares and Square Roots, Cubes and Cube Roots, Indices, Algebraic Expressions and Factorization, Equations in One Variable, Identities, Lines and Angles, Triangles, Pythagoras Theorem, Area, Volume and Surface Area, Circle: Chords and Tangents, Polygon.

Reference Books : Published by IME (Std. 7th and 8th)

- Study book
- Past year MAT papers (Topic wise) 2023 - 2011

The students can buy the books from IME website www.aiime.org

Books will be sent to their residence address.

Awards for MAT

For Students Scoring

- 1) 40% to 48%** : Passing Certificate
- 2) 50% to 88%** : Selection Certificate
- 3) 90% and above** : Selection Certificate & Prize
(JMO study material)

Certificates will be sent to respective schools.

For private students certificates will be sent to their residence address.

Junior Maths Olympiad - 2025

Eligibility : Students scoring 50% and more in MAT exam **in the same academic year** are eligible to appear for JMO.

Examination Details

JMO exam is conducted only once and normally in the month of February.

JMO exam is conducted in 2 groups.

- **Primary Group :** Students of Std. 5th and 6th
- **Higher Primary Group :** Students of Std. 7th and 8th

JMO Question Paper (Primary and Higher Primary Group)

- Question paper is of Subjective type.
- Maximum marks are 100 & Time duration is 2 hours.
- Medium of examination is English.

While assessing the answers, more importance is given to the logical approach followed by students.

Syllabus : Primary Group (Std. 5th and 6th)

Crypt Arithmetic, Puzzles like Magic Squares & Magic Stars, Special Numbers like Pentagonal Numbers and Harshad Numbers, Change of Base of Numbers, Permutations, Series, Basic concepts of Geometry.

Reference Books : Published by IME

- Study book
- Past year JMO papers 2024 - 2012

Syllabus : Higher Primary Group (Std. 7th and 8th)

Number theory (Modular Arithmetic, Concept of Congruence, Application of Wilson Theorem), Sets, Relations and Functions, Permutations and Combinations and Sequence and Series (A.P., G.P., H.P., A.M., G.M., H.M.), Quadratic Equations, Geometry (Triangles, Circles, Cyclic Quadrilaterals).

Reference Books : Published by IME

- Study book
- Past year JMO papers 2024 - 2012

Awards for JMO

Following awards are given to successful candidates.

1. **Approximately Top 5% students :**

Ramanujan Scholarship of ₹ 1000/- will be awarded with certificate of honor and Gold Medal.

2. **Approximately Next 7% to 8% students :**

Kaprekar Scholarship of ₹ 500/- will be awarded with certificate of honor and Silver Medal.

3. **Approximately Next 10% to 12% students :**

Consolation prize and certificate of honor.

OUR JMO CHAMPIONS



Amey Patwardhan

JMO 2013 Gold Medalist. He represented India in International Olympiad of Physics and Astronomy in 2017 and won Gold medal for the country 3 times. Graduated from IISc-Bangalore. Currently pursuing Ph.D. from University of Illinois Urbana-Champaign



Malay Mahajan

JMO 2018 & 2019 Gold Medalist. He has cleared PRMO, RMO, INMO successfully. He was selected for training of International Mathematics Olympiad at Homi Bhabha Centre for Science Education. He won Silver Medal at Homi Bhabha Young Scientist exam.



Prasham Satra

JMO Silver Medalist
Pre RMO, RMO, INMO Qualified



Aditya Sawant

JMO Consolation Winner
Pre RMO, RMO, INMO Qualified



Ashmit Sahoo

JMO Gold Medalist
IOQM & RMO Qualified



Atharva Korde

JMO Gold Medalist
IOQM & RMO Qualified



Shyam Agarwal

JMO Consolation Winner
Pre RMO, RMO Qualified



Komal Nagda

JMO Gold Medalist
Pre RMO Qualified



Advay Deo

JMO Gold Medalist
IOQM Qualified

About Mathematics Olympiads

The National Board of Higher Mathematics (NBHM) was set up by Government of India under the Department of Atomic Energy (DAE) in the year 1983 to foster the development of Higher Mathematics in the country.

The Mathematics Olympiad activity was undertaken by NBHM from 1986 and is currently run in collaboration with Homi Bhabha Centre for Science Education, Mumbai. Main purpose of this activity is to support mathematical talent among high school students of our country.

To reach IMO (International Mathematical Olympiad), students have to go through following stages.

- (i) Indian Olympiad Qualifier in Mathematics (IOQM)
- (ii) Regional Mathematics Olympiad (RMO)
- (iii) Indian National Mathematical Olympiad (INMO)
- (iv) International Mathematical Olympiad (IMO)



For more information, you may visit following sites :
www.hbcse.tifr.res.in & www.mtai.org.in

Schools Winning Medals In JMO 2024

Sr. No.	School Name	Medal/s Won
1	Arya Gurukul, Kalyan	1 Gold
2	DAV Model School, Kharagpur	1 Gold, 1 Silver
3	Amity International School, Gurugram	1 Silver
4	Apeejay School, Nerul, New Mumbai	2 Silver
5	DAV Model School, Durgapur	1 Gold, 2 Silver
6	DAV Public School, Thane	2 Silver
7	Dhirubhai Ambani International School, Mumbai	1 Gold, 1 Silver
8	Little Angels English Medium School, Malegaon, Nashik	1 Gold, 2 Silver
9	Montessori Senior Secondary School, Andhra Pradesh	1 Gold, 2 Silver
10	N. G. Vartak English Medium High School, Saphale, Palghar	1 Silver
11	New Horizon Scholars School, Airoli, Thane	1 Gold
12	Podar International School, Yavatmal	1 Silver
13	Sadhu Vaswani international School, Sanpada, New Mumbai	1 Silver
14	Satya School, Gurugram	1 Silver
15	Smt. Sunitidevi Singhania School, Thane	1 Silver
16	Smt. Sulochanadevi Singhania School, Thane	2 Gold, 1 Silver
17	St. Joseph's Convent Sr. Secondary School, Jalgaon	1 Gold, 3 Silver
18	The S. I. A. High School & Jr. College, Dombivali	1 Silver
19	The Shriram Millennium School, Faridabad	1 Gold

Schools Winning Medals In JMO 2024

Sr. No.	School Name	Medal/s Won
20	Vasant Vihar High School & Jr. College, Thane	1 Silver
21	Vidya Niketan, Dombivali	1 Gold
22	Ascent International School, Udaipur	1 Gold
23	B. K. Birla Public School, Kalyan	1 Gold, 1 Silver
24	Euroschool, Airoli, Thane	1 Silver
25	Guardian School, Dombivali	1 Silver
26	Hiranandani Foundation School, Mumbai	1 Silver
27	IES Chandrakant Patkar Vidyalaya, Dombivali	1 Silver
28	Orchid International School, Koparkhairane, New Mumbai	1 Silver
29	Rustomjee Cambridge International School, Mumbai	1 Gold
30	Rustomjie International School, Jalgaon	1 Silver
31	Sardar Vallabhai Patel Vidyalaya, Thane	1 Silver
32	Sayee Academy, Chennai	1 Silver
33	Smt. Kantaben Chandulal Gandhi Eng. School, Kalyan	1 Silver
34	The Cambria International School, Kalyan	1 Silver
35	Vibgyor High School, New Mumbai	1 Silver