

Syllabus

Number Theory: Arithmetical operations, Advanced multiplication and long division of numbers, arithmetic of fractions and decimals, Learning divisibility rules, Prime Factorization, HCF (Highest Common Factor), and LCM (Lowest Common Multiple). Percentages & Interest: Applications of percentages, including profit and loss and simple interest calculations.

Geometry: Identifying angles (acute, obtuse, right). calculating the area and perimeter of squares and rectangles. (Problems involving these ideas). Using a compass and ruler to construct circles, line segments, and basic angles. Exploring congruence of triangles, properties of parallel lines, and symmetry.

Algebra: Using variables to represent unknown quantities and solving basic one-step equations, Order of Operations, Numerical Patterns: Identifying, analysing, and extending number sequences based on specific rules, Word Problems: Translating real-world scenarios into linear equations and solving for the unknown value.

Combinatorics: Simple problems involving permutations and combinations.

പരീക്ഷാ ഫീസ് : 250 രൂപ.

രജിസ്റ്റർ ചെയ്യുന്ന വിധം : പരീക്ഷ ഫീസ് താഴെ നൽകിയിരിക്കുന്ന ബാങ്ക് അക്കൗണ്ടിൽ അടച്ചു സ്ക്രീൻഷോട്ട് ഗൂഗിൾ ഫോം ഫിൽ ചെയ്യുന്നതിനോടൊപ്പം ചേർക്കേണ്ടതാകുന്നു.

ബാങ്ക് അക്കൗണ്ട് നമ്പർ : 57014625969

SBI CUSAT ക്യാമ്പസ് ബ്രാഞ്ച് (IFSC) : SBIN0070235

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കൊച്ചി ശാസ്ത്ര സാങ്കേതിക
സർവകലാശാല



**ജൂനിയർ മാത്തമാറ്റിക്കൽ
ഒളിമ്പ്യാഡ് (JMO) - 2026**

24 MAY (SUNDAY), 2026
Time : 10.00 a.m - 12.00 noon

Organised by

Department of Mathematics, CUSAT

Jointly with HBCSE, Mumbai

[Click this link for registration](#)



Scan QR to Register

Registration up to 30.04.2026, 5.00 p.m.

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Department of Mathematics

Junior Mathematics Olympiad - 2026

Model Question paper (Grades 5 – 7)

*Instructions: Answer all questions. Write your answers in the space provided
below each questions neatly.*

Show your working if needed. No calculators are allowed.

Name: _____

Roll No: _____

1. Compute $3456 + 7890$.

2. Find the difference: $5000 - 2345$.

3. Multiply: 123×45 .

4. Divide: $648 \div 12$.

5. Simplify $\frac{36}{48}$ to its lowest terms.

6. Add: $\frac{2}{5} + \frac{3}{10}$.

7. Subtract: $\frac{7}{8} - \frac{1}{4}$.

8. Add: $12.5 + 7.85$.

9. Multiply: 3.2×4.5 .

10. If a notebook costs ₹25, how much do 8 notebooks cost?

11. Find the perimeter of a rectangle with length 12 cm and breadth 8 cm.

12. Find the area of the same rectangle (length 12 cm, breadth 8 cm).

13. Find the area and perimeter of a square with side 9 cm.

14. Find the volume of a cube whose side is 5 cm.

15. Find the Least Common Multiple (LCM) of 12 and 18.

16. Find the Greatest Common Divisor (GCD) of 24 and 36.
17. Solve: $x + 7 = 15$.
18. Solve: $3y = 24$.
19. Divide ₹120 in the ratio 2 : 3.
20. What is 25% of 200?
21. A train covers 240 km in 4 hours. Find its speed in km/h.
22. If 5 kg of rice cost ₹250, what is the cost of 8 kg of rice?
23. Find the circumference of a circle with radius 7 cm. (Use $\pi \approx \frac{22}{7}$)
24. Find the area of the circle with radius 7 cm, (Use $\pi \approx \frac{22}{7}$).
25. Convert $\frac{3}{4}$ to a decimal.

26. Convert 0.75 to a fraction in simplest form.

27. Add: $(-8) + (-12)$.

28. Multiply: $(-15) \times 3$.

29. The sum of two numbers is 50, and one number is 10 more than the other. Find the numbers.

30. Find the next term in the sequence: 2, 5, 8, 11, ---.

End of Examination