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IMO TRAINING PROGRAM

For Grades 1 to 8

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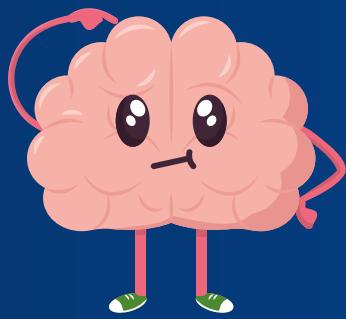
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Why Choose HOVERS ACADEMY?

- Trusted Online Academy with Proven Results
- Expert Mentors with Olympiad Experience
- Small Batch Size—Personalized Attention
- Interactive Tools, Math Games & Visual Learning
- Weekly Practice Tests & Concept Quizzes
- Affordable Pricing for Every Family
- Progress Reports Shared with Parents Monthly





Program Features

- Flexible Batch Timings (Evening & Weekend Options)
- Live Online Sessions + Recorded Classes
- Doubt Clearing Sessions & One-on-One Guidance
- Mock Olympiads & Revision Workshops
- Strategy Tips for Exam Day Success





IMO Syllabus Overview

(as per SOF standards)

Customized by Grade



Grades 1-2

- Numbers, Shapes, Patterns
- Basic Arithmetic & Logical Reasoning



Grades 3-4

- Addition, Subtraction, Multiplication, Division
- Geometry, Time, Money, Puzzles



Grades 5-6

- Fractions, Decimals, Factors, Graphs
- Algebraic Thinking, Logical Sequences

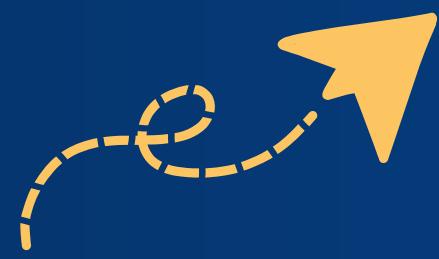
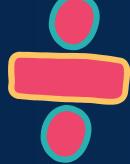


Grades 7-8

- Algebra, Geometry, Mensuration, Equations
- Data Handling, Higher Order Thinking Skills



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Grade 1

IMO Topics



Numbers

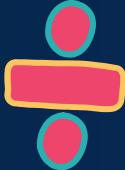
- 1 Number names (1 to 100)
- 2 Number sense and counting
- 3 Ascending and descending order
- 4 Comparison of numbers (greater than, less than, equal to)
- 5 Odd and even numbers
- 6 Place value (ones and tens)



Addition and Subtraction

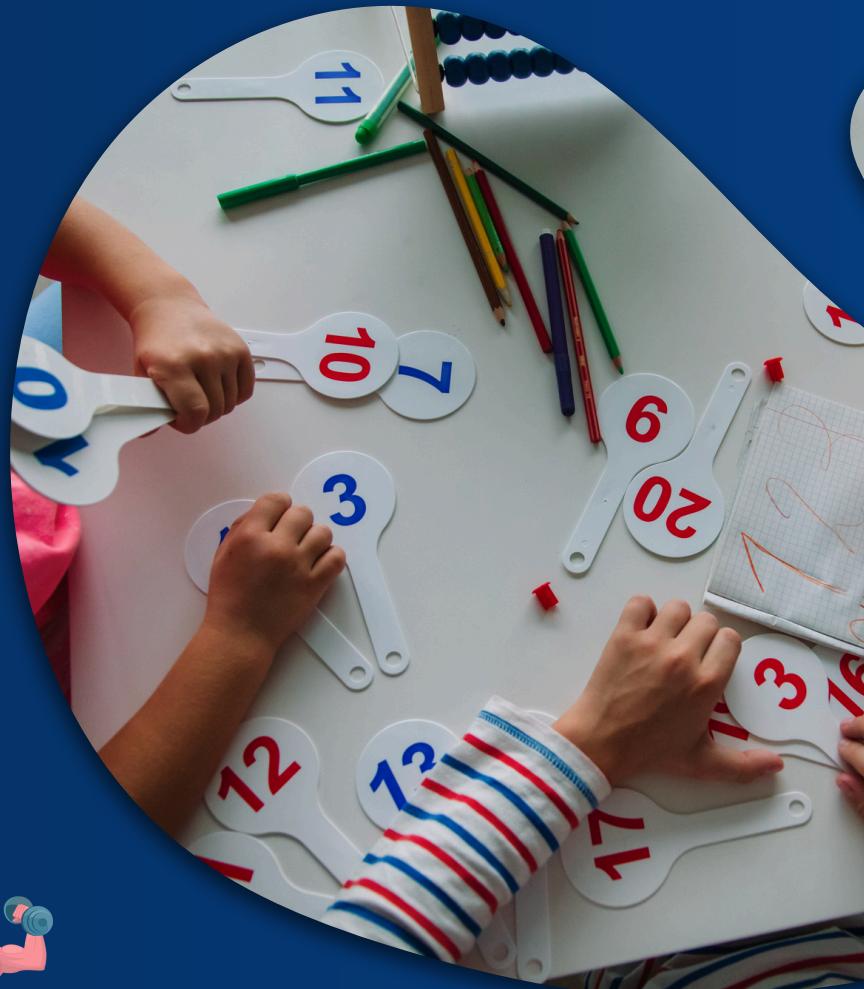
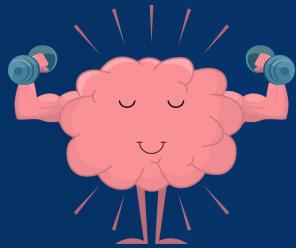
- 1 Basic addition and subtraction (single and two-digit numbers)
- 2 Word problems
- 3 Addition and subtraction with number lines
- 4 Missing numbers in equations





Shapes and Spatial Understanding

- 1 2D shapes: circle, square, triangle, rectangle
- 2 3D shapes (basic intro): cube, sphere, cone
- 3 Identifying shapes in daily life
- 4 Patterns and sequences



Measurement

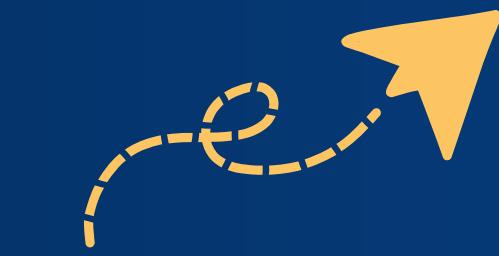
- 1 Comparing lengths (longer/shorter), weight (heavier/lighter), and capacity (more/less)
- 2 Introduction to standard and non-standard units





Time

- 1 Reading the clock (hour and half-hour)
- 2 Days of the week, months of the year
- 3 Sequencing events



Money

- 1 Recognizing coins and currency notes
- 2 Simple transactions (buying and selling)



Logical Reasoning

- 1 Picture-based puzzles and patterns
- 2 Odd one out
- 3 Series completion
- 4 Matching pairs and sorting



Grade 2

IMO Topics

Numbers and Number Operations

- Number names (1 to 1000)
- Place value (ones, tens, hundreds)
- Comparing and ordering numbers
- Skip counting (by 2s, 3s, 5s, 10s)
- Odd and even numbers
- Simple multiplication and division (tables 1 to 5)

Addition and Subtraction

- Addition and subtraction of 2-digit numbers
- Word problems involving addition and subtraction
- Mental math strategies for quick calculations
- Missing numbers in equations (e.g., $14 + \underline{\hspace{1cm}} = 20$)

Multiplication and Division (Introductory)

- Understanding multiplication as repeated addition
- Simple division as sharing
- Using tables (1 to 5)
- Word problems related to multiplication and division

Shapes and Geometry

- Identifying 2D and 3D shapes: circles, triangles, squares, rectangles, cubes, cylinders, cones
- Symmetry and patterns
- Perimeter of simple shapes (e.g., squares and rectangles)
- Basic introduction to angles



Measurement

- Length, weight, and capacity (using standard units like cm, kg, liters)
- Comparison of measurements (longer/shorter, heavier/lighter, more/less)
- Time (reading both hour and minute hands of a clock)
- Introduction to simple units of time (seconds, minutes, hours, days)

Money

- Identifying coins and notes (up to 100)
- Simple addition and subtraction of money
- Solving basic problems involving money transactions (buying/selling)
- Counting money and making change



Logical Reasoning and Patterns

- Patterns in numbers, shapes, and colors
- Completing sequences (number and shape patterns)
- Odd one out puzzles
- Basic logic puzzles involving shape arrangement and reasoning

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Grade 3

IMO Topics

Number Sense

- Numbers up to 10,000
- Place value (ones to thousands)
- Expanded form and number names
- Roman numerals (up to 50)
- Even & odd numbers, skip counting
- Comparing and ordering numbers



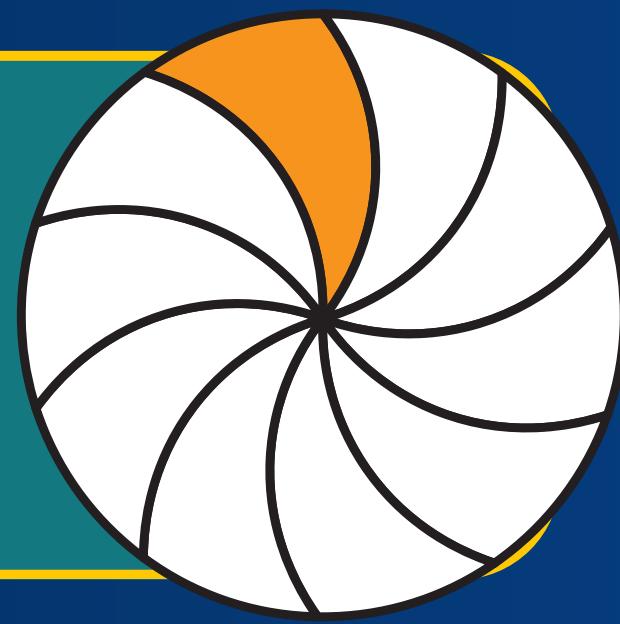
Operations

- Addition and subtraction (3- and 4-digit numbers)
- Multiplication (tables up to 10)
- Basic division and relationship with multiplication
- Word problems involving all operations
- Estimation and rounding off

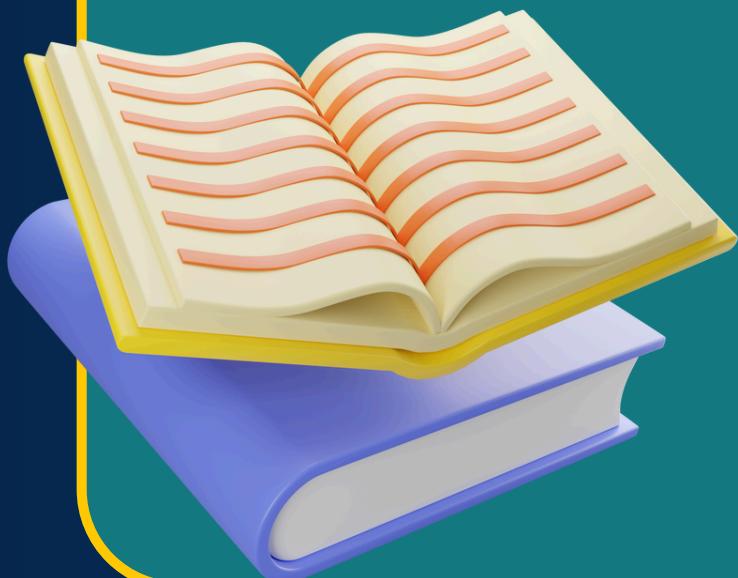


Fractions

- Concept of fractions ($1/2$, $1/4$, $3/4$, etc.)
- Equivalent fractions
- Simple comparison of fractions



$$y - y_1 = m(x - x_1)$$



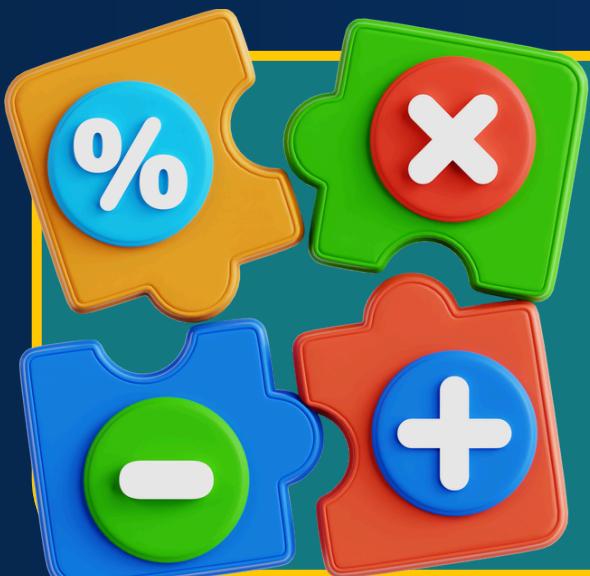
Geometry and Spatial Understanding

- 2D & 3D shapes and their properties
- Lines (straight, curved), line segments, and angles
- Perimeter of simple shapes
- Symmetry and patterns

Measurement

- Units of length, weight, and capacity (cm, m, kg, g, ml, l)
- Conversion between units
- Word problems on measurement
- Area concept (basic introduction)





Time

- Reading the clock (24-hour format)
- Days, weeks, months, and calendars
- Time intervals and simple time problems



Money

- Addition/subtraction of money (including decimals)
- Transactions and making change
- Word problems with real-life situations



Data Handling

- Reading and interpreting bar graphs and pictographs
- Simple data collection and representation





Logical Reasoning

- Number and shape patterns
- Series completion
- Coding-decoding (simple)
- Direction sense, mirror images, and odd one out



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Grade 4

IMO Topics

Number Sense and Numeracy

- ✓ Numbers up to 1,00,000
- ✓ Indian and International number systems
- ✓ Place value and face value
- ✓ Roman numerals (up to 100)
- ✓ Rounding off numbers
- ✓ Factors and multiples
- ✓ Even, odd, prime, and composite numbers

Operations

- ✓ Addition, subtraction, multiplication, and division of large numbers
- ✓ Word problems using all operations
- ✓ BODMAS (order of operations)
- ✓ Estimations and checking for reasonableness



Fractions and Decimals

- ✓ Equivalent fractions, comparing and ordering
- ✓ Addition and subtraction of like and unlike fractions
- ✓ Introduction to decimals (tenths, hundredths)
- ✓ Rounding off numbers
- ✓ Converting fractions to decimals and vice versa

Geometry

- ✓ Properties of 2D and 3D shapes
- ✓ Lines, line segments, rays, angles (acute, obtuse, right)
- ✓ Perimeter and area of simple shapes
- ✓ Symmetry and basic geometry reasoning



Measurement

- ✓ Length, weight, capacity – conversions within units
- ✓ Time – 12-hour and 24-hour clock
- ✓ Calculating duration of events
- ✓ Word problems involving measurements



Money

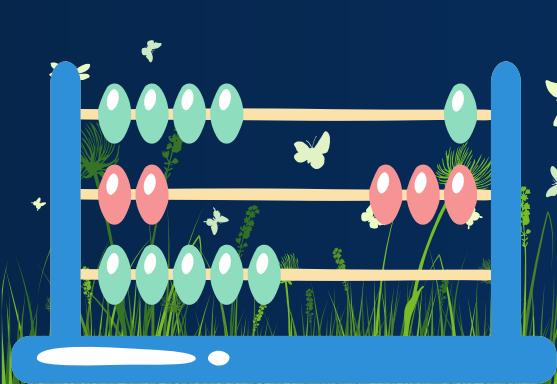
- ✓ Transactions involving bills and receipts
- ✓ Addition and subtraction with decimals
- ✓ Solving multi-step money-related problems

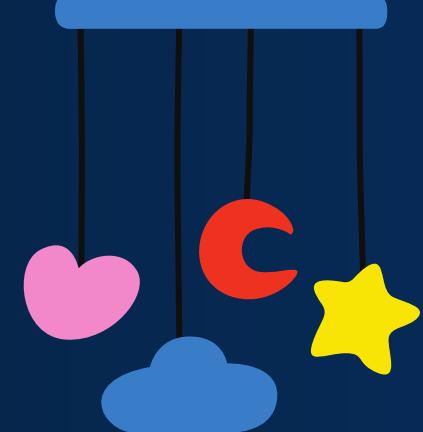
Data Handling

- ✓ Pictographs, bar graphs, tally marks
- ✓ Drawing and interpreting data from charts
- ✓ Simple probability (likelihood of events)

Logical Reasoning

- ✓ Number series and patterns
- ✓ Alphabet and shape series
- ✓ Direction sense, mirror and water images
- ✓ Odd one out, classification
- ✓ Simple coding-decoding, Venn diagrams





Grade 5

IMO Topics

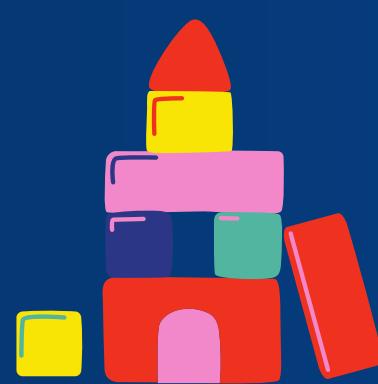


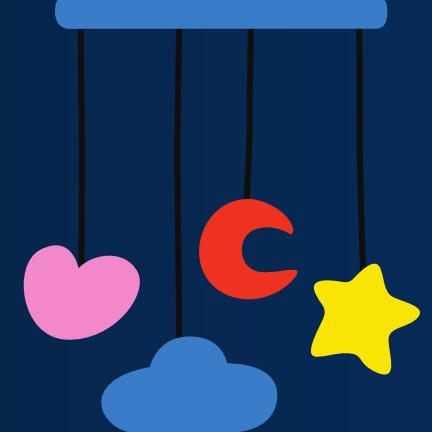
Number Sense and Numeracy

- ✓ Numbers up to 10,00,000 and beyond
- ✓ Indian & International place value systems
- ✓ Roman numerals (up to 1000)
- ✓ Prime and composite numbers
- ✓ Factors and multiples, HCF & LCM
- ✓ Squares and square roots (basic concept)

Arithmetic Operations

- ✓ Addition, subtraction, multiplication, division of large numbers
- ✓ BODMAS rule (order of operations)
- ✓ Estimation and approximation
- ✓ Word problems with multi-step operations





Fractions and Decimals

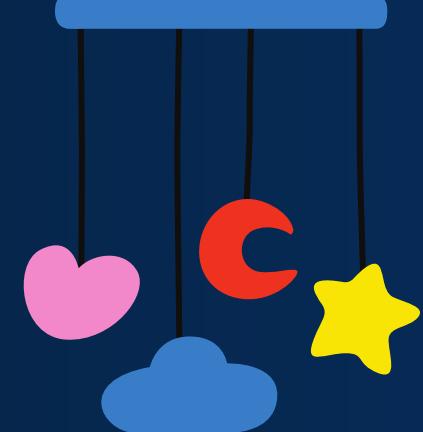
- ✓ Equivalent fractions, comparing and ordering
- ✓ Addition and subtraction of fractions
- ✓ Multiplication and division of fractions (basic level)
- ✓ Decimals – addition, subtraction, place values
- ✓ Conversion between fractions and decimals

Geometry



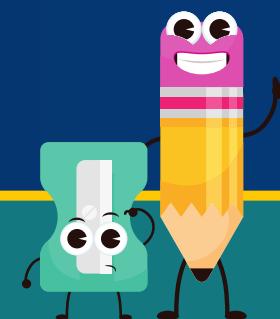
- ✓ Lines, angles, triangles, quadrilaterals
- ✓ Types of angles (acute, right, obtuse, straight, reflex)
- ✓ Symmetry and reflection
- ✓ Perimeter and area of regular shapes
- ✓ Understanding shapes: polygons, circles, 3D figures





Measurement

- ✓ Units and conversions (length, mass, volume)
- ✓ Area and perimeter (compound shapes included)
- ✓ Time – conversions and problem-solving
- ✓ Temperature – reading and comparing



Data Handling

- ✓ Bar graphs, line graphs, pictographs, tables
- ✓ Reading and interpreting data
- ✓ Simple probability and data-based questions



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Money

- ✓ Currency and decimal operations
- ✓ Unitary method and cost-based problems
- ✓ Bills, shopping problems, budgeting basics



Logical Reasoning

- ✓ Patterns in numbers, shapes, and letters
- ✓ Series completion (number/letter/shape)
- ✓ Mirror and water images
- ✓ Direction sense and blood relations
- ✓ Venn diagrams, puzzles, and classification



Grade 6

IMO Topics

Number System

- Large numbers up to 10 crore
- Indian & International place value
- Roman numerals (advanced)
- Factors, multiples, HCF & LCM
- Prime factorization, divisibility rules
- Integers (positive and negative numbers)

Arithmetic Operations

- Operations with large numbers
- BODMAS and brackets
- Word problems (multi-step)
- Estimation and rounding off
- Squares and square roots (intro level)



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Fractions and Decimals

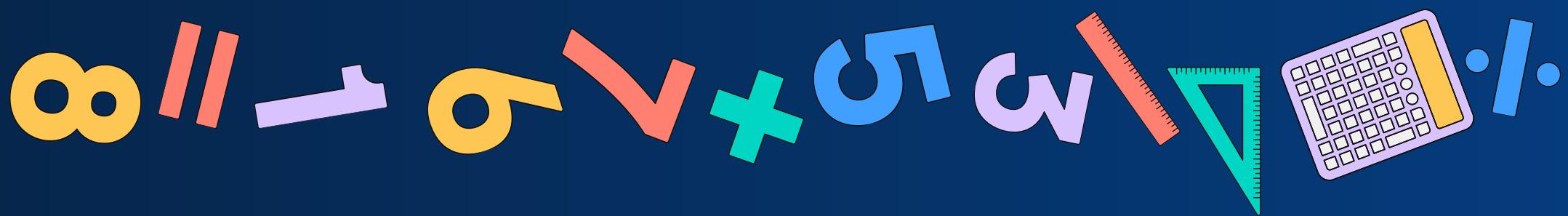
- Equivalent fractions, comparing, and ordering
- Addition, subtraction, multiplication & division of fractions
- Decimal operations (including conversion between units)
- Word problems involving fractions and decimals

Ratio, Proportion & Unitary Method

- Basic ratio and proportion concepts
- Solving word problems using unitary method
- Real-life application of ratios

Algebra (Introductory)

- Patterns and simple expressions
- Solving basic equations
- Substitution in expressions
- Use of variables



Geometry

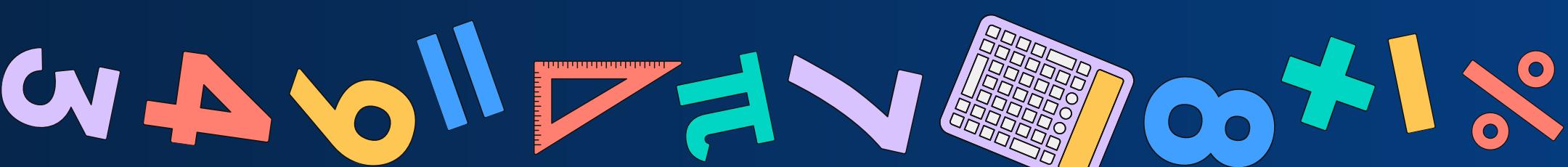
- Lines, angles, triangles, quadrilaterals
- Construction of angles and shapes with ruler & compass
- Properties of shapes (parallel lines, perpendicular lines)
- Types of triangles and quadrilaterals
- Symmetry and reflection

Mensuration

- Perimeter and area of rectangles, squares, triangles
- Volume and surface area of cubes and cuboids (introductory)
- Units of measurement and conversions

Data Handling

- Bar graphs, pictographs, line graphs, tables
- Mean, median, mode (basic)
- Reading and interpreting charts
- Probability – simple events (likely/unlikely)



Logical Reasoning

- Number and alphabet series
- Coding-decoding
- Analogy, puzzles, and patterns
- Mirror/water images
- Direction sense and blood relations
- Venn diagrams and classification problems



Grade 7

IMO Topics



Number System

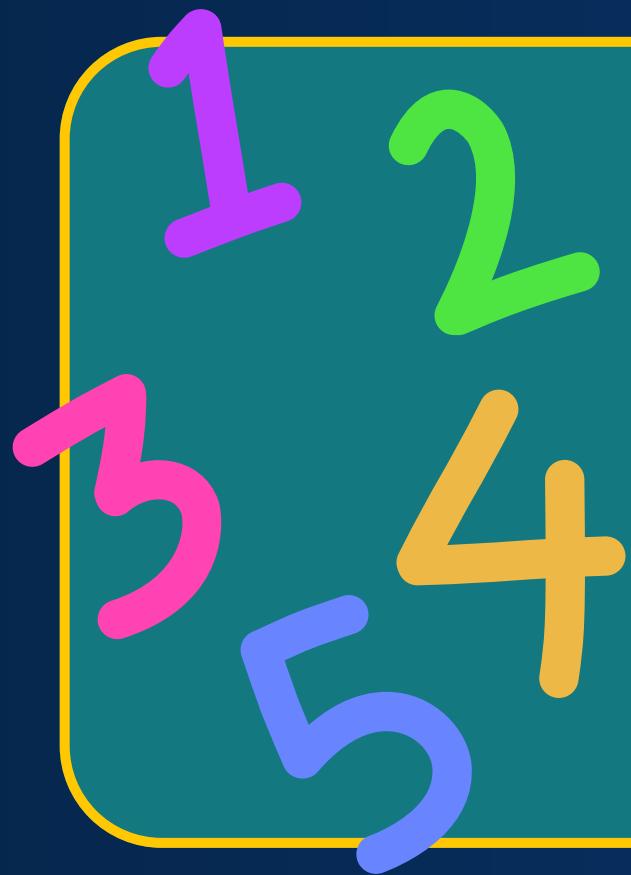
- Large numbers and operations
- Rational numbers and their representation
- Properties of rational numbers
- Conversion between decimals and fractions
- Laws of exponents and powers



Arithmetic Operations

- BODMAS, brackets, and mixed operations
- Word problems involving rational numbers
- Simplification using identities
- Squares, square roots, cubes, cube roots (basic)





Algebra

- Algebraic expressions and identities
- Addition, subtraction, multiplication of expressions
- Solving linear equations in one variable
- Factorization (basic)
- Application of algebra in real-life problems

Ratio & Proportion

- Direct and inverse proportion
- Unitary method
- Percentage, profit & loss
- Simple and compound interest (introductory)



Mensuration

- Perimeter and area of plane figures
- Surface area and volume of cube, cuboid, and cylinder
- Conversion of units (area & volume)
- Word problems on mensuration

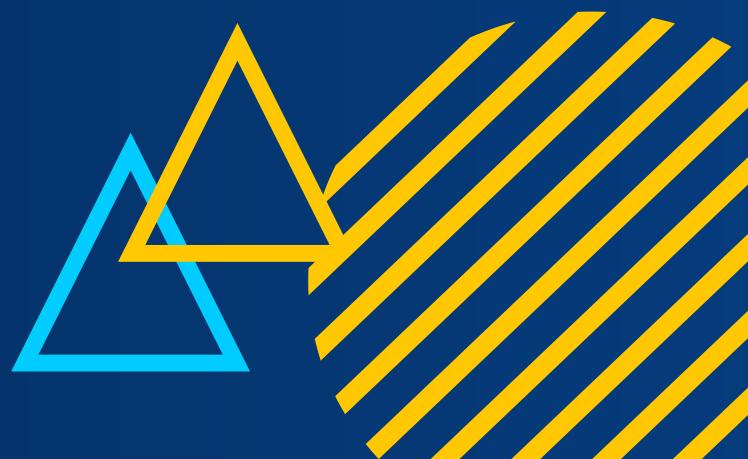
Geometry

- Lines, angles, and properties
- Properties of triangles, types and congruence
- Properties of parallelograms and quadrilaterals
- Construction of triangles and angles using compass
- Basic concepts of circles



Data Handling

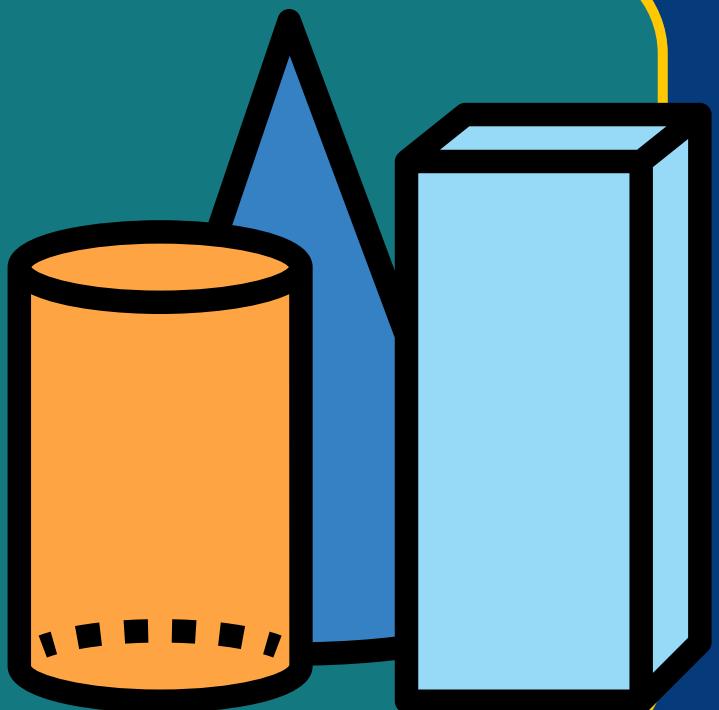
- Collection and representation of data
- Bar graphs, histograms, line graphs, pie charts
- Mean, median, mode (advanced)
- Simple probability – events and outcomes





Logical Reasoning

- Number and letter series
- Coding-decoding (advanced)
- Direction sense, blood relations
- Mirror and water images
- Pattern recognition and classification
- Logical puzzles and Venn diagrams



Grade 8

IMO Topics

Number System

- Rational and irrational numbers
- Real numbers and their properties
- Laws of exponents (including negative exponents)
- Square roots and cube roots
- Scientific notation



Algebra

- Algebraic expressions and identities
- Factorization and simplification
- Linear equations in one variable
- Introduction to linear equations in two variables
- Application-based algebraic problems

Ratio, Proportion & Percentage



- Direct and inverse proportions
- Percentage and its applications
- Profit, loss, discount
- Simple and compound interest (including formulas)
- Time and work, time and distance

Geometry

- Properties of triangles, quadrilaterals, and polygons
- Congruence and similarity of triangles
- Angles and intersecting lines
- Construction of geometric figures using ruler and compass
- Basic understanding of circles (chords, arcs, angles)

Mensuration

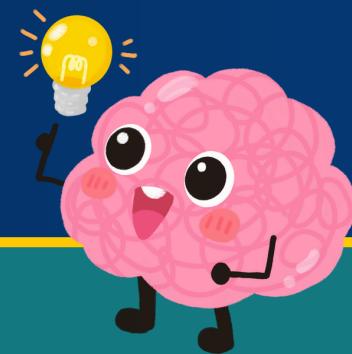


- Area and perimeter of 2D shapes
- Surface area and volume of cube, cuboid, cylinder, cone, and sphere
- Conversion between units
- Real-life applications of mensuration

Data Handling

- Collection and tabulation of data
- Graphical representation: bar graphs, histograms, pie charts, line graphs
- Measures of central tendency: mean, median, mode
- Probability (experimental and theoretical – basic level)

Logical Reasoning



- Numerical and alphabetical series
- Coding-decoding (moderate to high level)
- Analogy, classification, and puzzles
- Blood relations, direction sense
- Venn diagrams, logical conclusions
- Pattern recognition and data sufficiency





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