

OLYMPIAD INTERNATIONAL MATH SYLLABUS CLASS 6

Knowing Numbers

- Identifying Place Values and Face values
- Roman Number Predecessor and Successor
- Addition and Subtraction of Roman Numbers
- Expanded form
- Comparing number (up to 6 digits)
- Conversion of Standard form and Expanded form
- Estimation of values to the nearest ten, hundred's , thousand's E.g. Estimate the quotient to the nearest tens
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- Scientific Notations
- Forming Numbers (with and without Repetition) from given information
- Word Problems

Whole Numbers

- Greater than and less than
- Whole Number Predecessor and Successor
- Arithmetic operation based on the number line.
- Representation of Roman Numerals to Whole number
- Evaluate using Arithmetic Properties
- Arithmetic Properties of multiplication and addition for whole numbers.
- Word Problem

Play with Numbers

- Divisibility Rules
- Find the values of variables in the flowchart
- Prime and Co-Prime Numbers
- Composite Numbers
- HCF and LCM
- Word Problems

Integers

- Compare integers
- Compare Expressions
- Addition and Subtraction of integers
- Multiply and Divide integers
- Integer on Number line
- Addition and Subtraction of integer on number line
- Evaluate numerical expressions involving integers
- Compare temperature above and below zero degree celsius
- Word Problems

Fraction

- Understand Fractions
- Sum and differences of fractions
- Multiply and divide fractions and mixed numbers
- Sum and differences of mixed numbers
- Arrange fractions in ascending and descending order
- Compare Fractions using models

- Convert Fractions and mixed numbers to decimals
- Word problems

Decimals

- Understand Decimals
- Sum and differences of decimals
- Arranging decimals in order
- Rounding up decimals to whole numbers
- Evaluate Numerical expressions using decimals
- Convert decimals to fractions or mixed fractions
- Word Problems

Data Handling

- Study the pictograph and answer the questions
- Interpret line graph
- Interpret bar graph
- Interpret frequency table
- Study the categorized data and solve the questions
- Find the answers of the questions using information given in pictographs, picture graphs

Mensuration

- Find area of rectangle and square
- Find perimeter of rectangle and square
- Find the missing sides or lengths of the given figure
- Find area and perimeter of figures shown in grids
- Find the area and perimeter of shaded and unshaded figures
- Using area and perimeter for calculating daily expenses

- Area and Perimeter: Word Problems

Algebra

- Evaluate linear expressions
- Identify the equations for the given statements
- Simplify expressions by combining like terms
- Simplify the algebraic expressions
- Find the value of the variables
- Word Problems

Ratio and Proportion

- Equivalent Ratios
- Unit Rates
- Solve the given proportions and ratios
- Find the ratios of shaded and unshaded figures
- Word Problems

Symmetry

- Identify Symmetrical Figures
- Line of symmetry
- Rotational Symmetry
- Add number of squares to make the figure

symmetrical Practical Geometry

- Plane and Point
- Lines and Segment
- Line Bisection

- Angle Bisector
- Supplementary and complementary angles
- Word Problem

Logical Reasoning

- Number and figure patterns
- Coding and decoding
- Blood Relations
- Alphabet test
- Direction sense test
- Ranking test: find the position of a term or a object from the given position
- Mirror images or Water images
- Sitting arrangements
- Embedded figures