

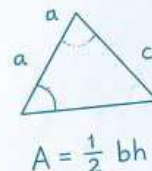
OWRELYUS

OLYMPIAD SCHOLARSHIP EXAM

SYLLABUS

MATHEMATICS

CLASS 6



The **OWRELYUS** Olympiad Scholarship Exam in Mathematics for Class 6 is designed to assess students' conceptual understanding, problem solving ability, logical reasoning and application of mathematical skills.

SYLLABUS TOPICS

UNIT 1

KNOWING OUR NUMBERS

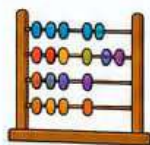
- Natural Numbers and Whole Numbers
- Integers
- Factors and Multiples
- Prime Numbers and Composite Numbers
- HCF and LCM
- Playing with Numbers



UNIT 2

WHOLE NUMBERS

- Number System
- Addition and Subtraction
- Multiplication and Division
- Order of Operations
- Properties of Whole Numbers



UNIT 3

FRACTIONS

- Understanding Fractions
- Equivalent Fractions
- Comparison of Fractions
- Addition and Subtraction of Fractions
- Multiplication and Division of Fractions



UNIT 4

DECIMALS

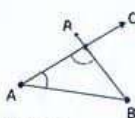
- Decimal Numbers
- Operations on Decimals
- Comparison of Decimals
- Conversion: Fraction to Decimal and Decimal to Fraction

2.5

UNIT 5

BASIC GEOMETRICAL IDEAS

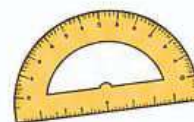
- Points, Lines and Line Segments
- Rays and Angles
- Types of Angles
- Parallel, Intersecting and Perpendicular Lines
- Basic Geometrical Concepts



UNIT 6

ANGLES

- Measurement of Angles
- Types of Angles
- Complementary Angles
- Supplementary Angles
- Angles in a Triangle and Quadrilateral



UNIT 7

RATIO AND PROPORTION

- Ratio
- Equivalent Ratios
- Proportion
- Unitary Method
- Applications of Ratio and Proportion



UNIT 8

PERCENTAGE

- Understanding Percentage
- Conversion of Percentage to Fraction and Decimal
- Percentage of a Number
- Word Problems on Percentage



UNIT 9

PROFIT AND LOSS

- Profit and Loss
- Gain and Loss
- Discount
- Simple Word Problems



UNIT 10

MENSURATION

- Perimeter of Plane Figures
- Area of Rectangle and Square
- Area of Triangle and Parallelogram
- Area and Circumference of Circle
- Volume of Cuboid and Cube



EXAM PATTERN

- ★ Mode of Exam : Offline (Pen & Paper)
- ★ Duration : 60 Minutes
- ★ Total Questions : 50
- ★ Type of Questions : Multiple Choice Questions (MCQs)
- ★ Marking Scheme : +1 Mark for Each Correct Answer
- ★ Negative Marking : No

BENEFITS OF PARTICIPATION

- ✓ Enhances logical thinking and problem solving skills
- ✓ Builds accuracy and speed in mathematics
- ✓ Prepares students for future competitive exams
- ✓ Attractive Scholarship & Certificate for All Participants
- ✓ Detailed Performance Report

