

International Math Olympiad Handbook – Grade 1

This handbook covers topics for Grade 1 students (Age 6–7).

Grade 1 (Age 6-7)

Introduction

Grade 1 students are introduced to basic mathematical concepts, developing problemsolving skills, logical thinking, and curiosity for numbers.

Curriculum Topics

- Numbers and Counting
- Addition and Subtraction
- Basic Shapes
- Measurement (Length, Weight, Volume)
- Patterns and Sorting
- Comparing Numbers
- Ordinal Numbers
- Simple Word Problems

Detailed Explanations with Examples

• Numbers and Counting: Learn numbers from 1 to 100 and counting objects.

Example: Count 7 pencils and 5 erasers \rightarrow total = 12



• **Addition:** Add numbers up to 20.

Example: 8 + 6 = 14

• **Subtraction:** Subtract numbers up to 20.

Example: 15 - 9 = 6

• Basic Shapes: Identify circles, squares, triangles.

Example: Draw a triangle and label its sides

• Measurement: Compare length, weight, volume.

Example: Which pencil is longer?

• Patterns and Sorting: Recognize and create patterns.

Example: Red, blue, red, blue... what comes next?

• Comparing Numbers: Learn greater than, less than.

Example: 7 < 10

• Ordinal Numbers: First, second, third.

Example: The 3rd student in line

• **Simple Word Problems:** Solve small problems.

Example: If you have 3 apples and get 2 more, how many apples now?

Practice Problems

- 1. 7 + 5 = ?
- 2. 12 4 = ?
- 3. Draw a circle.
- 4. Count 10 pencils.
- 5. Complete the pattern: $\blacksquare \Box \blacksquare \Box$?



- 6. Compare: 8 ? 12
- 7. Who is first, second, third?

Summary & Key Formulas

- Addition: a + b
- Subtraction: a b
- Basic Shapes: Circle, Square, Triangle
- Measurement Units: cm, m, g, kg, l