



ISMC International Singapore
Maths Competition

Primary 5 Syllabus

Calculators allowed

Numeration

Number notation and place values, including decimals and fractions
Application of factors and multiples in problem solving
Numerical manipulations
Solving word problems involving the 4 operations, including order of operations

Percentage

Percentage as part of a whole
Fractions and decimals as percentages and vice versa
Solving word problems involving percentage

Measurement

Time in years, months, weeks, days, hours, minutes and seconds, 24-hour clock
Area and perimeter of composite figures
Length, mass and volume
Area of triangle
Volume of cube and cuboid
Spatial visualisation

Geometry

Properties of angles
Angles and properties of triangle, parallelogram, rhombus and trapezium
Symmetry

Data Analysis

Interpreting data from tables, bar graphs and line graphs
Average

Logic

Inferring and deducing relationships between objects given a set of clues

Combinatorics

Finding largest, smallest or optimal number of objects satisfying certain criteria; deciding when the criteria can be met

Ratio

Expressing a ratio in its simplest form

Solving word problems involving ratio of two or three given quantities, their sum or difference, before and after change