



ISMC International Singapore
Maths Competition

Primary 6 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

Solving for percentage part or whole of a quantity
Expressing one quantity as a percentage of another
Comparison of two quantities by percentage
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
Area and circumference of circle
Spatial visualisation

Geometry

Properties of angles
Angles in composite figures
Nets

Data Analysis

Interpreting data from tables, bar graphs, line graphs and pie charts

Average

Logic

Inferring and deducing relationships between objects given a set of clues

Combinatorics

Finding largest, smallest or optimal number of options 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

Speed

Distance, time and speed

Solving word problems involving rate and speed

Algebra

Representation of an unknown number using a letter

Solving word problems involving algebraic expressions