



Math Olympiad (MOEMS Division M)

A four-month Math Olympiad course for MOEMS Division M, moving through six belts across three levels — number theory and fractions, then percentages, statistics and probability, and finally measurement, geometry and problem solving.

6 belts

24 topics

Grade 6

Completes in 4 Months

○ White Belt 1

Level 1 · 5 Weeks

1. Standard Form of A Number — Order of Digits & Digit Sum
2. Sets & Sets Of Numbers — Set quantifier "all", "none", and "some"; Palindrome, palindromic number, or numeral palindrome
3. Multiples, Divisibility, & Factors
4. Review/Assessment

○ White Belt 2

Level 1 · 5 Weeks

1. Exponents — Square root, Cube roots & Scientific Notation
2. Number Theory — GCF, LCM Relative Prime & Co-prime Numbers
3. Fractions — Types of fractions, Simplifying Fractions, Complex Fractions & Fractions Including Negative Numbers.
4. Review/Assessment

● Yellow Belt 1

Level 2 · 5 Weeks

1. Percentage — Percent, rate, base, reverse percentage, & word problems
2. Statistics — Mean, Median, Mode, Range, & Standard Deviation
3. Probability
4. Review/Assessment

● Yellow Belt 2

Level 2 · 5 Weeks

1. Angles
2. Line Segments
3. Measurement — Units of measurement for time, length, area, and weight
4. Review/Assessment

● Green Belt 1

Level 3 · 5 Weeks

1. Metric Units of Measurement
2. Triangles & Quadrilaterals
3. Perimeter & Circumference
4. Review/Assessment

● Green Belt 2

Level 3 · 5 Weeks

1. Area & Surface Area
2. Congruent Figures & Similar Figures
3. Problem Solving & Order Of Operations
4. Review/Assessment

