

Category 2 Topics

Graphs	The coordinate plane, interpreting graphs, slope and rate of change, direct variation
Measurement and Geometry	Angles, line and angle relationship, angles in polygons, area of rectangles, parallelograms, triangles and trapezoids, perimeters
Probability	Sample space, finding probability of dependent and independent events
Mental Math and Brain Teasers	Age/level appropriate analytical and critical thinking questions
Data collection and analysis	Mean, median, mode and range, frequency tables, histograms
Ratio and Proportion	Ratio, proportion, similarity of triangles and polygons
Operations and Properties & Introduction to Algebra	Order of operations including exponents, properties of numbers. Variables and expressions, solving first degree equations with variables on both sides
Integers and Rational Numbers, Decimals and Percentage	Operations in integers, solving equations containing integers, equivalent fractions and ordering rational numbers, four operations in fractions with like, unlike and mixed numbers and in decimals. Solving equations containing fractions, percentage of change, simple interest

