



Math Entrance Exam Requirements

Grade 4 to 5	Understand the structure of Multi-digit Numbers : Students should be able to: <ul style="list-style-type: none">• Read and write numbers to one million• Compare multi-digit number• Round multi-digit number
	Addition and Subtraction strategies and Algorithms : Students should be able to: <ul style="list-style-type: none">• Estimate sums or differences• Strategies to add a multi-digit number (Partial sums , place value, regrouping)• Strategies to add a multi-digit number (place value, adjusting, regrouping.)• Solve Multi-step problems involving addition and subtraction
	Multiplication as comparison: Students should be able to: <ul style="list-style-type: none">• Use multiplication equations to represent multiplicative comparison statements• Represent additive and multiplicative comparison problems using bar diagrams and equations.• Represent multiplicative comparison with bar diagrams and multiplication equations• Represent multiplicative comparison with bar diagrams and division equations
	Multiplication strategies with multi-digit numbers : Students should be able to: <ul style="list-style-type: none">• Use strategies involving basic facts, place value, and the associative property of multiplication to multiply by multiples of 10, 100, 1,000.• Use distributive property and array models to find products.• Use distributive property and area models to find products of 3- and 4- digit factors by 1- digit factor.• Use area models and partial products to multiply 2-digit factors.• Solve word problems with multi-step representations involving multiplication.
	Fraction Equivalence: Students should be able to: <ul style="list-style-type: none">• Use fraction models and number lines to explain equivalent fractions• Use multiplication and division to generate equivalent fractions• Use number line representations and multiplication and division to generate equivalent fractions.• Compare fractions using benchmarks• Compare 2 fractions by generating equivalent fractions to create like numerators or like denominators
	Geometric figures (Students will need their geometric sets including rulers, and protractors.) Students should be able to: <ul style="list-style-type: none">• Identify points, lines, line segments, and rays• Classify angles• Draw and measure angles Understand parallel, perpendicular and intersecting lines.