

Math Entrance Exam Requirements

Grade level	Requirements
Grade 6 to 7	<u>Knowing numbers:</u> Students should be able to: • use different expanded forms of a decimal number. • write the fractional form of a decimal and vice versa • use powers of 10 to write a number in expanded notation. • multiply and divide a decimal by 10, 100, 1000... <u>Adding, Subtracting and Multiplying Decimals</u> Students should be able to: • apply the order of operations to calculate (PEMDAS) • express a multi-step problem in a single mathematical expression • use the distributive property to calculate. <u>Dividing Decimals:</u> Students should be able to: • dividing decimals by whole numbers • dividing decimals by decimals • understand and apply divisibility rules • finding GCD and LCM • prime Factorization <u>PEMDAS on Decimals:</u> Students should be able to: • apply the order of operations on Decimals to calculate (PEMDAS) • express a multi-step problem in a single mathematical expression • use the distributive property to calculate. <u>Lines and straight lines:</u> Students must be able to: • use the mathematical symbols to represent a straight line, segment and ray. • constructing triangle knowing the lengths of its sides. • identify the Isosceles triangle and the equilateral triangle from their sides. • identify the median in a triangle (Centroid). <u>Perpendicular lines:</u> Students must be able to: • drawing perpendicular lines and perpendicular bisector of a segment. • identify a right triangle. • construct the heights of a triangle and indicate the orthocenter. • use the equidistance property of perpendicular bisectors (CIRCUMCENTER). <u>Fractions:</u> Students must be able to: • finding different forms of a fraction (equivalent and irreducible) • finding a common denominator for 3 fractions • recognize a decimal fraction • compare fractions with different methods. • find the ratio of two quantities??? <u>Adding and Subtracting Fractions:</u> Students must be able to: • add and subtract fractions. • apply the order of operations in calculating with fractions. <u>Multiplying and Dividing Fractions:</u> Students must be able to: • multiply fractions/ Calculating fraction of a whole. • divide fractions. <u>PEMDAS on Fractions:</u> • apply order of operation on fractions. • solve word problems on PEMDAS. <u>Statistics:</u> Students should be able to: • find the mean, median, range and mode of a data set • draw dot plots and bar graphs to represent a given data. • find frequency, relative frequency and cumulative frequency of a given data. N.B: Please make sure you have a geometry set for the test.