



Math Entrance Exam Requirements

Grade level	Requirements
Grade 5	<p><u>Place Value:</u> Students should be able to:</p> <ul style="list-style-type: none">- Identify the place and the value of numbers through billion- Write the Expanded form, expanded notation and word form <p><u>Knowing numbers:</u> Students should be able to:</p> <ul style="list-style-type: none">- Round whole numbers- Compare and order whole numbers <p><u>Integers:</u> Students should be able to:</p> <ul style="list-style-type: none">- Add and subtract numbers- Multiply large numbers <p><u>Multiples and Factors:</u> Students should be able to:</p> <ul style="list-style-type: none">- Find the least common multiple of two or more numbers- Find the greatest common factor of two or more numbers <p><u>Division:</u> Students should be able to:</p> <ul style="list-style-type: none">- Divisibility rules- Divide whole numbers by single digit divisors- Divide whole numbers by two-digit divisors <p><u>Decimals:</u> Students should be able to:</p> <ul style="list-style-type: none">- Identify places of decimals through thousandths- Round decimals- Compare and order decimals in ascending and descending order <p><u>Addition of whole numbers and decimals:</u> Students must be able to:</p> <ul style="list-style-type: none">• Add decimals with integers• Add decimals with other decimals including the thousandths <p><u>Subtraction of whole numbers and decimals:</u> Students must be able to:</p> <ul style="list-style-type: none">• Subtract decimals and integers• Subtract decimals with other decimals including the thousandths

Multiplication of whole numbers and decimals:

Students must be able to:

- Multiplying decimals by powers of 10
- Multiply two digits by one digit number
- Multiply two digit, three digits, and four digits by two-digit numbers
- Multiply decimals by integers
- Multiply decimals by decimals (*up till the thousandths place*)

Dividing of whole numbers and decimals:

Students must be able to:

- Divide decimals by powers of 10
- Dividing whole numbers with a decimal quotient

Fractions:

Students must be able to:

- Represent fractions (Proper and improper fractions/mixed numbers)
- Order fractions in ascending and descending order
- Find equivalent fractions
- Simplify fractions using GCF
- Change decimals to fractions and vice versa

Fractions operations:

- Adding and subtracting fractions
- Multiplying and dividing fractions

Order of operation:

- Solve operations using whole numbers (PEMDAS)

Geometry:

Students should be able to:

- Differentiate parallel from perpendicular lines
- Classify triangles according to sides and angles
- Name angles and classify them as (*acute, obtuse, straight, right, reflex*)
- Draw different angles
- Coordinate plane
- Area and perimeter of square and rectangle
- Polygons – quadrilaterals
- Volume

N.B: Please make sure you have a geometry set for the test.