



ST.MARY'S CATHOLIC HIGH SCHOOL, DUBAI.

ENTRANCE EXAMINATION – for Academic Year 2019-2020

MATHEMATICS PORTION – YEAR 8

ONE PAPER – MARKS : 50 (non calculator)

Number

- Decimals – Ordering and all four operations, word problems
- Directed Numbers
- Estimating the answer by rounding
- Fractions – Equivalent fractions, Addition and subtraction, word problems
- Order of operations - BODMAS
- Long Multiplication and long Division
- Percentages – To find the percentage of quantities, conversions between fraction, decimal and percentages
- Ratio and Proportion
- Solving Problems

Algebra

- Expanding brackets and Simplifying Expressions
- Formulae – substituting values
- Simple Linear Equations
- Square Numbers and Square roots
- Triangular Numbers

Geometry and Measures

- Perimeter and Area of 2D shapes
- Surface area and Volume of Cuboids
- Lines and Angles – Angle properties of parallel lines, triangle and quadrilaterals
- Measuring and drawing angles
- Constructions of triangles (SAS, ASA,SSS)
- Reflections
- Translations

Statistics

- Mean, Mode, Median and range from raw data
- Probability
- Pie Charts
- Comparing data