



مدرسة القديسة مريم الكاثوليكية الثانوية - دبي  
ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

## **ENTRANCE EXAMINATION 2023**

### **MATHEMATICS PORTION – YEAR 8**

**(NON CALCULATOR)**

#### **NUMBERS**

- 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