



ENTRANCE EXAMINATION 2023
MATHEMATICS PORTION – YEAR 7
(NON CALCULATOR)

NUMBERS

- Factors, multiples
- Prime factorization
- All four operations
- Fractions
 - ✓ Equivalent fractions
 - ✓ Addition, subtraction & multiplication
 - ✓ Fractions of an amount
- Decimals
 - ✓ Decimal place values
 - ✓ Addition, subtraction & multiplication
- Percentages
 - ✓ Percentages of an amount
 - ✓ Conversion between fraction, decimals & percentages
- Ratio and proportion
- Word problems on all the above topics

ALGEBRA

- Mapping and expressions
- Solving simple linear equations
- Substituting values
- Plotting coordinates in all four quadrants

GEOMETRY AND MEASURES

- Properties of some 2D and 3D shapes
- Nets of 3 D shape
- Reflection
- Translation
- Lines
- Angles
- Angle facts
- Construction of triangles
 - Area - squares, rectangles, compound shapes, triangles
- Perimeter - all polygons and compound shapes

STATISTICS

- Probability
- Mean, median, mode, range from a raw data
- Pictograph
- Tally chart
- Bar graph
- Line graph
- Pie chart