

Year 11 January Foundation Calculator paper.

Number: Fraction to decimal conversion; Upper and lower bounds; Place value; Money problem; Problem solving with arithmetic; Problem solving with money and bills; writing ratio and simplifying; Percentage (greater than 100%) of an amount; Prime numbers; Inequalities on a number line; Problem solving using percentages of amounts;

Algebra: Collect like terms and simplify; Sequences and nth term rule using patterns; Using basic algebra rules and substitution; Drawing conversion graph from given ratio; Next term of a quadratic sequence; Rate of change from a graph; Interpreting a quadratic graph: Finding maximum point, y-intercept and roots; factorising expression and solving a quadratic equation; Form and solve equation using properties of a square;

Data Handling: Interpreting bar chart; interpreting pictogram; Interpreting from pie chart; Theoretical probability and calculating relative frequency; Finding missing value given the mean of set of values;

Shape, space and measures: Circle facts; Fraction of a Time amount; Reflection and enlargements of shapes on grid; Calculate area of shape on grid; isosceles triangle properties; Area of shapes on grid; Find the sum of interior angles of an irregular polygon; Angle proof using angles in parallel lines rules, triangle and quadrilateral properties rules.