

Year 8 Foundation Plus Revision List - April 2019

<u>Objective</u>	<u>Hegarty Maths Clip</u>	<u>Objective</u>	<u>Hegarty Maths Clip</u>
Find common factors and common multiples of two numbers	27/33	Round to any number of significant figures	130
Know the square numbers up to 15x15 and their corresponding roots	99/101	Estimate answers to calculations using approximation and rounding	131
Identify prime numbers	28	Understand that premature rounding can cause problems when undertaking calculations with more than one step	132
Write a number as the product of its prime factors	29	Calculate speed, distance or time, given the other two	716-724
Find the HCF and LCM of two numbers	32/35	Calculate the perimeter of a rectangle by adding.	549
Recognise a linear sequence and use the term-to-term rule to generate further terms.	197	Use appropriate units for the perimeter of a shape.	691
Generate the terms of a linear sequence using the term-to-term rule.	197	Calculate the perimeter of a triangle and other polygons by adding.	549
Identify the term-to-term rule of a linear sequence.	197	Measure shapes and find their perimeter.	548
Recognise the sequences of triangular , square and cube numbers and the Fibonacci sequence, and use the term-to-term rule to generate further terms.	261	Calculate the perimeter of a shape made from rectangles where all the values required are given.	549
Recognise quadratic sequences, and use the term-to-term rule to generate further terms.	247	Calculate the perimeter of a shape made from triangles, rectangles and other quadrilaterals where all the values required are given.	549
Recognise simple geometric sequences, and use the term-to-term rule to generate further terms.	264	Calculate the perimeter of a shape made from rectangles where some of the values required must be calculated.	550
Use algebraic notation and symbols correctly.	151	Calculate the perimeter of a shape made from triangles, rectangles and other quadrilaterals where some of the values required must be calculated.	551
Understand the vocabulary of algebra, including the words term and factor.	151	Know, understand and use the formula for finding the circumference of a circle.	534
Understand that algebraic operations follow the same conventions and order as arithmetical operations.	152	Calculate the perimeter of a semi-circle.	536
Simplify expressions involving one variable by collecting like terms.	156	Calculate the perimeter of a quadrant.	544
Simplify expressions involving more than one variable by collecting like terms.	157	When given the input, find the output from a function.	288
Multiply a number by a bracket.	160	When given the output, find the input for a function.	288
Multiply a single term by a bracket.	160	Find the function, when given the input and output.	288
Multiply two (or more) brackets by single terms and simplify the resulting expression.	161	Understand and use function notation.	288
Write expressions using powers.	173	Find the value of a function at a given point.	288
Solve simple proportion problems using unitary method	339	Solve one-step linear equations, e.g. $3x = 9$, $x - 5 = 8$, where the answers are positive integers.	178
Use proportion in real contexts (direct only).	339	Solve two-step linear equations, e.g. $2x + 1 = 7$, where the answers are positive integers.	179
Use proportion in real contexts (including inverse).	342	Solve all multi-step linear equations, leaving answers as fractions where appropriate	180/181/ 182
Understand ratio	328	Solve linear equations involving brackets, e.g. $3(2x - 4) = 6$.	179
Understand and use ratio notation	328	Recognise and name polygons	822

Reduce a ratio to its simplest form	329	Understand the terminology (e.g. regular, irregular, etc), notation (e.g. for parallel sides, equal, sides, etc) and properties relating to polygons.	822
Use ratio in relation to standard and compound units	330	Calculate and use angle sums of polygons	560
Use scale diagrams and maps	864	Use language associated with angle, including angle types	455
Relate ratios to fractions	330	Know angles are measured in degrees, estimate and compare acute, obtuse and reflex angles	457
Express a relationship between two quantities as a ratio or a fraction	330	Draw and measure acute and obtuse angles to $\pm 2^\circ$	461
Apply ratio to real contexts and problems (conversion, comparison, scaling, mixing, concentrations)	739	Draw and measure reflex angles to $\pm 2^\circ$	461
Add, subtract, multiply and divide quantities of money, household finance, utility bills, shopping bills	744	Understand and use properties of angles on a straight line	477
Know and use standard units of mass, length, time, money and other measures	691	Understand and use properties of vertically opposite angles	480
Solve problems involving converting between units of time.	709	Understand and use properties of angles at a point	479
Choose appropriate units for estimating or carrying out measurements	691	Understand and use the angle sum of triangles, find missing angles in scalene triangles	485
Convert between units of measure in the same system	692	Understand and use three figure bearings to specify direction	492
Solve problems involving the addition and subtractions of units of measure.	714	Measure the bearing of a point B from a point A	492
Round numbers to a given power of ten	17	Mark on a diagram the position of the point B given its bearing from point A	492
Round to a given number of decimal places (including money)	56	Measure or draw a bearing between the points on a map or scaled plan	493