

Year 8 Foundation Revision List - April 2019

Objective	Hegarty Maths Clip	Objective	Hegarty Maths Clip
Identify factors and multiples of a number	27	Understand perimeter as the distance around a shape.	548
Find common factors and common multiples of two numbers	27/33	Find the perimeter of a rectangle by counting.	548
Know the square numbers up to 15x15 and their corresponding roots	99/101	Calculate the perimeter of a rectangle by adding.	549
Identify prime numbers	28	Use appropriate units for the perimeter of a shape.	691
Find the HCF and LCM of two numbers	32/35	Calculate the perimeter of a triangle and other polygons by adding.	549
Recognise a linear sequence and use the term-to-term rule to generate further terms.	197	Measure shapes and find their perimeter.	548
Draw the next diagram in a series of patterns.	196	Calculate the perimeter of a shape made from rectangles where all the values required are given.	549
Generate the terms of a linear sequence using the term -to-term rule.	197	Calculate the perimeter of a shape made from triangles, rectangles and other quadrilaterals where all the values required are given.	549
Identify the term-to-term rule of a linear sequence.	197	Calculate the perimeter of a shape made from rectangles where some of the values required must be calculated.	550
Recognise that a series of patterns generates a numerical sequence.	196	Calculate the perimeter of a shape made from triangles, rectangles and other quadrilaterals where some of the values required must be calculated.	551
Use algebraic notation and symbols correctly.	151	When given the input, find the output from a function.	288
Understand the vocabulary of algebra, including the words term and factor.	151	When given the output, find the input for a function.	288
Understand that algebraic operations follow the same conventions and order as arithmetical operations.	152	Find the function, when given the input and output.	288
Simplify expressions involving one variable by collecting like terms.	156	Understand and use function notation.	288
Simplify expressions involving more than one variable by collecting like terms.	157	Find the value of a function at a given point.	288
Multiply a number by a bracket.	160	Solve one-step linear equations, e.g. $3x = 9$, $x - 5 = 8$, where the answers are positive integers.	178
Multiply a single term by a bracket.	160	Solve two-step linear equations, e.g. $2x + 1 = 7$, where the answers are positive integers.	179
Multiply two (or more) brackets by single terms and simplify the resulting expression.	161	Solve all multi-step linear equations, leaving answers as fractions where appropriate	180/181/ 182
Write expressions using powers.	173	Translate a point when given instructions using left, right, up, down.	637/638
Simplify expressions involving the multiplication and division of indices.	173	Translate a 2d shape when given instructions using left, right, up, down.	637/638
Solve simple proportion problems using unitary method	339	Describe the translation of a 2d shape using left, right, up, down.	637/638
Use proportion in real contexts (direct only).	339	Interpret a column vector	637/638
Use proportion in real contexts (including inverse).	342	Describe movement using column vectors	637/638
Understand ratio	328	Translate a 2d shape when given a column vector	637/638
Understand and use ratio notation	328	Describe the translation of a 2d shape using a column vector	637/638
Reduce a ratio to its simplest form	329	Represent single column vectors graphically.	622
Use ratio in relation to standard and compound units	330	Identify the column vector from a diagram (single vector)	623
Use scale diagrams and maps	864	Multiply a column vector by a scalar and show this graphically.	626
Relate ratios to fractions	330	Recognise and name polygons	822

Express a relationship between two quantities as a ratio or a fraction	330	Understand the terminology (e.g. regular, irregular, etc), notation (e.g. for parallel sides, equal, sides, etc) and properties relating to polygons.	822
Read, write, order and compare money	743	Use language associated with angle, including angle types	455
Know and use standard units of mass, length, time, money and other measures	691	Know angles are measured in degrees, estimate and compare acute, obtuse and reflex angles	457
Solve problems involving converting between units of time.	709	Draw and measure acute and obtuse angles to $\pm 2^\circ$	461
Choose appropriate units for estimating or carrying out measurements	691	Draw and measure reflex angles to $\pm 2^\circ$	461
Convert between units of measure in the same system	692	Understand and use properties of angles on a straight line	477
Solve problems involving the addition and subtractions of units of measure.	714	Understand and use properties of vertically opposite angles	480
Round to the nearest integer	17	Understand and use properties of angles at a point	479
Round numbers to a given power of ten	17	Understand and use the angle sum of triangles, find missing angles in scalene triangles	485
Round to a given number of decimal places (including money)	56	Understand and use three figure bearings to specify direction	492
Round to any number of significant figures	130	Measure the bearing of a point B from a point A	492
Calculate speed, distance or time, given the other two	716-724	Mark on a diagram the position of the point B given its bearing from point A	492
		Measure or draw a bearing between the points on a map or scaled plan	493