

KNOWLEDGE ORGANISER

Year 9 - Maths - AC1



Number 1				Statistics 1			
1	An integer is	a whole number	18	Mode is	the most frequent data value		
2	Inequality signs are	>, < ≤, ≥	19	Median is	the middle number when values are in order		
3	A numerator is	the top number of a fraction	20	Mean is	adding up all the values and dividing by how many values there are		
4	A denominator is	the bottom number of a fraction	21	Range is	Biggest value – smallest value		
5	Equivalent fractions	have the same value but use different numbers	22	Discrete data is	data that takes exact values		
6	To round a number	you shorten or simplify it whilst keeping it close to its original value	23	Continuous data is	data that comes from a measurement		
7	Estimate means	to find a solution that is close to the actual answer by rounding	24	Interval	all the numbers between two given numbers		
,	Estimate means	to 1 significant figure	25	Outliers	A value that "lies outside" (is much smaller or larger than) most of the other values in a set of data.		
		Algebra 1	26	Conclusion	is a statement arrived at by applying a set of logical rules		
8	An Expression has	at least one letter, an operation and no equal sign	2D, 3D Shapes and Measurements				
9	Simplifying	is replacing a mathematical expression by an equivalent one, that is simpler (usually shorter)	27	Acute angles are	less than 90°		
10	A term is	a single number or variable, or numbers and variables multiplied together.	28	Obtuse angles are	greater than 90° but less than 180°		
11	Substitute means	to replace a letter by a number	29	Reflex angles are	greater than 180° but less than 360°		
12	Expand means	getting rid of brackets by multiplying	30	Right angles are	exactly 90°		
13	An equation contains	at least one letter, an equal sign and can be solved	31	Parallel lines are	lines that if continued would never meet		
14	Coefficient is	the number in front of a letter	32	Perpendicular Lines are	lines that meet at a right angle		
15	Factorise means	putting brackets back in by taking out HCF	33	Symmetry objects are	identical either side of a line of symmetry or reflection line		
16	A formula contains Index (Power)	at least two letters and an equal sign	34	Rotational symmetry is	how many times an object looks identical when rotated through 360°		
17	ilidex (Fower)	the index of a number says how many times to use the number in a multiplication	35	Compass points	The directions on the magnetic compass		







Word	Definition	Synonyms	Antonyms	Etymology		
Estimate ≈	To form an idea of the cost, size, value etc. of something, but without calculating it exactly	Guess Assessment Reckoning	• Fact • Truth	from Latin <i>aestimatus</i> " to determine the value of		
Approximation ≈	A number, calculation, or position that is close to a correct number, time, or position, but is not exact.	Guess Estimate conjecture	Difference Dissimilarity Unlikeness	From the Latin ' <i>approximo</i> ' meaning to draw near to		
Expression 4x + 8	Numbers, symbols and operators (such as + and ×) grouped together that show the value of something.	· *****	• *****	**non related to the maths terminology**		
Equation 4x+8=28	An equation says that two things are equal.	Balanciung Equivalence likeness	• *****	From the Latin ' <i>aequo</i> ' meaning Equal and Fair		
Factorising	Finding what to multiply to get an expression.	• simplify	Multiply out	****		
Simplify 3x + 10 + x - 2 = 4x + 8	To simplify (or reduce) an expression means to make it as simple as possible.	ClarifyStreamlineDisentangle	Complicate Obscure mystify	Taken directly from the French language 'simplifier'		
Expand 4(x+2)=4x +8	Expand is when we multiply to remove the brackets ()	Develop Multiply out Elaborate	Factorise shorten	From the Latin ' <i>expando</i> ' meaning expand		
Interval a b	The set containing all real numbers or points between two given numbers or points	• Gap • Period • Space	Continuation Closure	From the Latin ' <i>inter</i> ' meaning between and ' <i>vallum</i> ' meaning wall		
Outliers	A value that "lies outside" (is much smaller or larger than) most of the other values in a set of data.	Anomaly Irregularity Outsider	AverageNormalStandard	An English word made from the 16 th century transferred from the meaning ' <i>outsider</i> '		
Conclusion	A result or judgement based on reasoning, research, calculation, etc. The final part of something.	Completion Finish Ending	Theory Start Concept	From the Lation word 'concludo' meaning I finish, or I shut up!		