## X=4 Y=5 (X+Y)<sup>2</sup>=? RECAP

MATHS- ALGEBRA YEAR 5



- Recognise and use the inverse relationship between multiplication and division and addition and subtraction.
- Use the inverse to solve missing number problems.

## CRUCIAL KNOWLEDGE

- This is a year 6 unit. For y5, you will be starting to explore the following concepts:
- Algebra is the part of maths in which letters and symbols are used to represent numbers and formulae.
- A simple formula is a rule, written using numbers and letters, that helps to work out things like volume, or patterns.
- A linear number sequence increases or decreases by the same amount each time and can be described using a rule.
- Missing number problems can be written using algebra, where a letter stands for the number we don't know.
- Some number sentences have two unknown numbers, and there can be different pairs of

## numbers that make the sentence true.

Forming equations			Find pairs of values			Enumerate possibilities	
a + 14 = 20 $b - 20 = 15$ $4c = 28$ $d + 12 = 30$ $3e - 5 = 10$	equation is a number stat n (=). Expressions on eithe of equal value.	ation is a number statement with an equal Expressions on either side of the equal sign qual value.		numbers, we substitution substitution atically to air of variables $\begin{bmatrix} ab = 18 \\ b \\ 1 & 18 \\ 2 & 9 \\ 3 & 6 \\ 6 & 3 \\ 9 & 2 \\ 18 & 1 \end{bmatrix}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Enumerating means making a complete list of answers to a problem. Use a system and organise your findings in an ordered list or table.       There are four ice crean floours.       Two scops of two different flavours give 6 possible combinations:         Use 2 system findings in an ordered list or table.       Image: Complete list floot combinations:       Two scops of two different flavours give 6 possible combinations:	
2(f + 12) = 44			Forming expressions			Substitution	
I su my nu x -	2a = 14 $2a = 14$ $a = 14$		An expression is a group of numbers, letters and operation symbols. Multip Add 12 to J	Add 14 to a     a       Subtract 20 from b     b       Multiply c by 4     12 more than d       12 more than f     3       ly e by 3 and subtract 5     3       r and then multiply by 2     2(	a + 14 b - 20 4c l + 12 3e - 5 lf + 12)	If $4 = 7$ and $9 = 5$ , what is the value of: 4 + 9 + 9 + 9 + 9 + 9 + 10 = 17 Substitute the following to work out the values of the expressions. w = 3  x = 5  y = 2.5 w + 10 = 3 + 10 = 13 w + x = 3 + 5 = 8 y - w = 2.5 - 3 = -0.5	
KEY VOCABULADY							
Expression	A grou	A group of letters, symb operation symbols		rls and Term-to- * term rule		Describes how to find the next term in a sequence based on the previous term	
Equation	An equatio Expression sig	An equation contains an equ Expressions on either side of sign hold an equal ve		Substitution		if we are given the value of the letters in an expression, we can substitute them to work out the value of the expression.	
	A type	A type of equation which us the relationship betweer variables. We often use for geometry and in scie			_		
Formula	us the re variable ger			Enumerate	F	inding all of the possible answers to a problem	