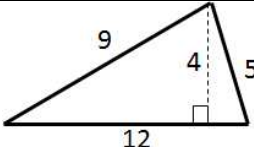


KNOWLEDGE ORGANISER – YEAR 7 TERM 4

KNOWLEDGE ORGANISER – YEAR 7 TERM 4				
Topic	Information	Examples	Hegarty Clip	
1	Expressions	An algebraic <u>expression</u> is an algebraic term or terms connected by + or – signs. An expression does not have an equals or inequality symbol.	$3x + 4$ $(x^3 + 5x - 7)^2$	151-153
2	Equation	An <u>equation</u> says that two expressions are equal. A <u>variable</u> is a symbol (usually a letter) that could represent any value.	$5x + 7 = 24$	176-180
3	Substitution	To <u>substitute</u> a number means to replace the variable with that number	eg substitute a=3 into 5a means calculate 5x3	780-789
4	Algebraic conventions	ab means a x b a^2 means a x a $\frac{a}{b}$ means a ÷ b	If a = 3 and b = 7 ab means 3 x 7 a^2 means 3 x 3 $\frac{a}{b}$ means 3 ÷ 7	151-153
5	Solving Equations	To find the answer /value of something Use inverse operations on both sides of the equation (balancing method) until you find the value for the letter.	Solve $2x - 3 = 7$ Add 3 on both sides $2x = 10$ Divide by 2 on both sides $x = 5$	176-180
6	Area	Area of a Rectangle Length x Width Area of a Parallelogram Base x Perpendicular Height Area of a Triangle Base x Perpendicular Height ÷ 2	 $A = 24cm^2$	554,556, 557