ALGEBRA BOOT CAMP

VOCABULARY

TO EFFECTIVELY SOLVE PROBLEMS, YOU MUST FIRST HAVE THE BASE KNOWLEDGE.

DEFINITION	EXAMPLE
Algebraic expression Numbers, symbols, and operators (such as + and x) grouped together that show the value of something	2 <i>x</i> + 4
Equal (equal sign) What is on one side of the sign is equal in <u>value</u> to what is on the other side of the sign.	2 + 2 = 4 2 toonies = 4 dollars
Algebraic equation An algebraic equation with an equal sign that is equal to a number or a second algebraic equation	2x + 4 = 8 2x + 4 = x + 6
Variable A symbol for a number we don't know yet (usually a letter like x or y)	x y
Constant A fixed value	5
Coefficient A number used to multiply a variable	2x
Pattern Things are arranged following a rule or rules	Each number in a series is 2 more than the next (or $y = x + 2$)
Linear equation An equation that makes a straight line when it is graphed	y = mx + b
Distributive property Multiplying a number by a group of numbers added together is the same as doing each multiplication separately	$10 \times (2+2) = 40$ (10 x 2) + (10 x 2) = 40 a(b + c) = ab +ac
Expand Using the distributive property to remove brackets in an algebraic expression.	7(c+2) 7c + 14
Ordered pair Two numbers written in a certain order, used to show a position on a graph	(4, 5)

Discrete data	The number of students in a class (you can't
Data that can only take certain values	have half a student)



How does this scale apply to algebra?

- Algebra is like a balanced scale. Whatever you do to one side of the equation, you must also do to the other side to keep it in balance (true)