## **Topic: Basic Number and Decimals**

Topic/Skill	Definition/Tips	Example
1. Integer	A whole number that can be positive,	-3, 0, 92
	negative or zero.	
2. Decimal	A number with a <b>decimal point</b> in it. Can	3.7, 0.94, -24.07
	be positive or negative.	
3. Negative	A number that is <b>less than zero</b> . Can be	-8, -2.5
Number	decimals.	-, -
4. Addition	To find the <b>total</b> , or <b>sum</b> , of two or more	3 + 2 + 7 = 12
	numbers.	
	ʻadd', ʻplus', ʻsum'	
5. Subtraction	To find the <b>difference</b> between two	10 - 3 = 7
	numbers.	
	To find out how many are left when some	
	are taken away.	
	'minus', 'take away', 'subtract'	
6.	Can be thought of as <b>repeated addition</b> .	$3 \times 6 = 6 + 6 + 6 = 18$
Multiplication		
	'multiply', 'times', 'product'	
7. Division	Splitting into equal parts or groups.	$20 \div 4 = 5$
	The process of calculating the <b>number of</b> <b>times one number is contained within</b>	20
	another one.	$\frac{20}{4} = 5$
		4
	'divide', 'share'	
8. Remainder	The amount 'left over' after dividing one	The remainder of $20 \div 6$ is 2, because
	integer by another.	6 divides into 20 exactly 3 times, with 2
9. BIDMAS	An acronym for the <b>order</b> you should do	left over. $6 + 3 \times 5 = 21$ , not 45
J. DIDWIAS	calculations in.	$0 + 3 \times 5 = 21, not + 5$
	BIDMAS stands for 'Brackets, Indices,	$5^2 = 25$ , where the 2 is the
	Division, Multiplication, Addition and	index/power.
	Subtraction'.	
	Indices are also known as 'powers' or	
	'orders'.	
	With strings of division and multiplication,	$12 \div 4 \div 2 = 1.5$ , not 6
	or strings of addition and subtraction, and	
10. Recurring	no brackets, work from left to right. A decimal number that has <b>digits that</b>	1
Decimal	repeat forever.	$\frac{1}{3} = 0.333 \dots = 0.\dot{3}$
	-	5
	The part that repeats is usually shown by	$\frac{1}{7} = 0.142857142857 \dots = 0.142857$
	placing a dot above the digit that repeats, or	7

dots over the first and last digit of the repeating pattern. $\frac{77}{600} = 0.128333 \dots = 0.12833$
---