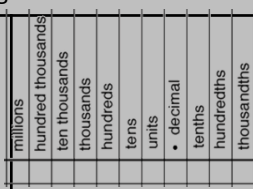


Year 7 Unit 2

Number

NUMBER SENSE	
integer	a whole number can be positive or negative
place value	the value of a digit in a number based on where it lies
decimal	not a whole number, it has a decimal point in it, can be positive or negative
terminating decimals	decimals which have a finite number of place values
recurring decimals	decimals with repeating digits or repeating patterns of digits
negative	a number that is less than zero , they can be decimals
ascending	numbers ordered from smallest to largest
descending	numbers ordered from largest to smallest



INEQUALITIES	
where two expressions are not equal in value	
strict inequalities:	$<$ less than $>$ greater than
non-strict inequalities:	\leq less than or equal to \geq greater than or equal to

MULTIPLES, FACTORS AND PRIME NUMBERS	
multiple	the result of multiplying a number by an integer, e.g. <i>the 3rd multiple of 7 is 21</i>
lowest common multiple (LCM)	the lowest common number in the multiplication tables of two or more different numbers
factor	a quantity which divides equally into a number, e.g. <i>factors of 8 are 1, 2, 4 and 8</i>
highest common factor (HCF)	the highest factor which belongs to two or more numbers
prime number	an integer greater than 1 that has exactly two factors, 1 and itself
prime numbers	2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31...
prime factor	a factor of a number which is also prime
product of prime factors (prime factorisation)	a set of prime factors which multiply to give a number <i>e.g. prime factor tree</i> $12 = 2 \times 2 \times 3$ or $2^2 \times 3$

OPERATIONS		
addition	symbol: + (<i>plus</i>)	Vocabulary: add, more than, sum, total, all together, more than
subtraction	symbol: - (<i>minus</i>)	Vocabulary: subtract, less, difference, take away, fewer than
multiplication	Symbol: X (<i>times</i>)	Vocabulary: multiply, lots of, product
division	Symbol: ÷ (<i>obelus</i>)	Vocabulary: divide, split, share
quotient	the result of a division (dividend ÷ divisor = quotient)	
remainder	the amount left over when a divisor doesn't fit into a dividend exactly	

APPROXIMATION AND ESTIMATION	
rounding	writing a number less accurately so it is easier to work with below 5, stay the same , 5 or above, round up
decimal place	the position of a digit after the decimal point
money	when working in pounds (£) and pence, all answers should be given to 2 decimal places
significant figure	1 st significant figure: the first digit in a number which is not a zero
estimate a calculation	The process of rounding numbers to one significant figure and then calculating to get an approximate answer.
approximate	an answer close to the exact value

PERIMETER	
perimeter	the shortest distance around a shape, to calculate it you find the sum of its sides
rectangle perimeter	$P = (l+w) \times 2$ add the length and width, then multiply by 2
perimeter of a compound shape	find all the lengths around the outside of the shape and add them up

AREA		
area	the amount of space a 2D shape takes up	
area of a rectangle	$A = bh$ Area = base x height	
area of a triangle	$A = \frac{bh}{2}$ Area = base x height $\quad \quad \quad 2$	
area of a compound shape	work out the area of each shape, add together	