## Year 7 Knowledge Organiser -

number and Place Value

## Ubjectiurs

Understand and use place value
Order positive and negative integers, decimals and practions
Round numbers to decimal places or signieicant figures Use the symbols $\equiv, \neq,\langle\rangle,, \leq \geq$
Know primes, $\mathcal{L C M}$, HCZ, roots and powers
Use the four operations with decimals
Use the order of operations
Estimate, cancel and simplify calculations
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Multiple - found by multiplying any number by positive integers

Factor - integers that multiply together to get another number.

HCF - highest common factor (biggest factor two or more numbers share)

LCM - lowest common multiple (the first time the times table of two or more numbers match)
Prime - an integer with only 2 factors
Inverse - the opposite function
Approximate - to estimate a number, amount or total often using rounding of numbers to make them easier to calculate with

Indices / Powers - show how many times a number or letter has been multiplied by itself
Significant figure - A digit that gives meaning to a number. The most significant digit (figure) in an integer is the number on the left. The most significant digit in a decimal fraction is the first nonzero number after the decimal point


## Estimation

Estimations are useful - especialy when using fractions and decimal to check if your soltion is possibe.

Most estimations round to I significant figure
Estimations are useful - especially when using fractions and decmal to check if your soltion is possble
$210+899<1200$

This is true because even if both numbers were rounded up, they would reach $300+900$
The correct estimation would be
$200+900=1100$

