## YEAR 9 - REASONING WITH NUMBER... Numbers

## Keywords

What do I need to be able to do?
I By the end of this unit you should be able to:
I- Identify integers, real and rational numbers
I- Work with directed number

- Solve problems with number
- Find HCF/ LCM
- add/ Subtract fractions
- Mutiply/ Divide fractions

I- Write numbers in standard form

Integer: a whole number that is positive or negative
Rational: a number that can be made by dividing two integers
Irrational: a number that cannot be made by dividing two integers
Inverse operation the operation that reverses the action
Quotient: the result of a division
Product: the result of a muttiplication
Muttiples: found by multiplying any number by positive integers
Factor: integers that muttiply together to get another number

Integers, real and rational numbers
intan
I Rational - root word: ratio
Real numbers: $\frac{2}{3}$ stems from $2: 1 \frac{2}{3}$ of the whole)
lrrational numbers: $\sqrt{2}$ the solution is a decimal that
never ends and does not repeat

The square root of a negative is not a real number and cannot be found


IIddition/ Subtraction of fractions $\mathbb{R}$


## Standard form R



| $6 \times 10^{5}+8 \times 10^{5}$ | $\left(1.5 \times 10^{5}\right) \div\left(0.3 \times 10^{3}\right)$ |
| :--- | :--- |
| $=600000+800000$ | $15 \div 0.3 \times 10^{5} \div 10^{3}$ |
| $=1400000$ | $=5 \times 10^{2}$ |
| $=1.4 \times 10^{5}$ |  |

