

Y9 Numbers



What do I need to be able to do?

By the end of this unit you should be able to:

- Identify integers, real and rational numbers
- Work with directed number
- Solve problems with number
- Find HCF/LCM
- Odd/ Subtract fractions
- Multiply/ Divide fractions
- Write numbers in standard form

Keywords

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 multiplication.

Multiples: found by multiplying any number by positive integers

Factor: integers that multiply together to get another number

Integers, real and rational numbers

Rational - root word: ratio

Real numbers: $\frac{2}{3}$ stems from $2:1(\frac{2}{3})$ of the whole)

Irrational 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

HCF/LCM



I is a common factor of all numbers

Common factors are factors two or more numbers share

HCF — Highest common factor

HCF of 18 and 30

1, 2, 3, 6, 9, 18

1, 2, 3, 5, 6, 10, 15, 30 30

HCF = 6

LCM — Lowest common multiple

LCM of 9 and 12

9, 18, 27, 36, 45, 54

12, 24, 36, 48, 60

LCM = 36

The first time their multiples match





