

Number

...or **NUMB**, for the correct order of operations, take care when using a calculator.

- Brackets
- Orders (or powers)
- Division and Multiplication
- Addition and Subtraction

Types of number

Integer: a 'whole' number
Factors: the divisors of an integer
• Factors of 12 are 1, 2, 3, 4, 6, 12
Multiples: a 'times table' for an integer (with infinite multiples)
• Multiples of 12 are 12, 24, 36, ...
Prime number: an integer which has exactly two factors (1 and the number itself). Note it is not a prime number.

Units

Highest Common Factor (HCF)
• Factors of 6 are 1, 2, 3, 6
Factors of 9 are 1, 3, 9
HCF of 6 and 9 is 3

Lowest Common Multiple (LCM)

• Multiples of 6 are 6, 12, 18, 24, ...
Multiples of 9 are 9, 18, 27, 36, ...
LCM of 6 and 9 is 18

Power notation

Write a number as a product of its prime factors, and follow for repeated factors.
• $120 = 2 \times 2 \times 2 \times 3 \times 5$

Indices and roots

Special indices for any value a
 $a^0 = 1$
 $a^{-1} = \frac{1}{a}$
 $a^{\frac{1}{2}} = \sqrt{a}$

Ordering with fractions

Adding or subtracting fractions, use a common denominator.
• $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

Multiplying fractions

Multiplying fractions: multiply numerators and denominators.
• $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

Dividing fractions

Dividing fractions: 'flip' the second fraction, then multiply.
• $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

Prime factorisation

Factorise an integer as a product of its prime factors.
• $12 = 2 \times 2 \times 3 = 2^2 \times 3$

Order of operations

Use the order of operations to solve problems.
• $2 + 3 \times 4 = 2 + 12 = 14$

Area and perimeter

Use the formulas for area and perimeter.
• Area of a rectangle: $A = l \times w$

Algebra

Use algebra to solve problems.
• $2x + 3 = 7$
 $2x = 7 - 3$
 $2x = 4$
 $x = 2$

Algebra

Look for the biggest square number factor of the coefficient.
• $12x^2 = 4 \times 3 \times x^2 = 4x^2 \times 3x^2$

Standard form

Standard form numbers are of the form: $a \times 10^n$ where $1 \leq a < 10$ and n is an integer.

Scientific notation

1 km = 1000 m
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Units

1 kg = 1000 g
1 tonne = 1000 kg
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Ordering

Order the numbers from smallest to largest.
• 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

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Geometry & measures

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Probability

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