

### 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 numbers: 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 number  $a$   
 $a^0 = 1$   
 $a^{-1} = \frac{1}{a}$   
 $a^{\frac{1}{2}} = \sqrt{a}$

### 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.  
•  $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

### Working with decimals

Working with decimals: 'line up' the decimal points, then multiply.  
•  $1.2 \times 0.3 = 0.36$

### Working with percentages

Working with percentages: 'line up' the decimal points, then multiply.  
•  $10\% \times 0.3 = 0.03$

### Working with ratios

Working with ratios: 'line up' the decimal points, then multiply.  
•  $1:2 = 0.5:1$

### Working with fractions

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•  $10\% \times 0.3 = 0.03$

### Algebra

Look for the biggest square number factor of the coefficient.  
•  $100 = 10 \times 10 \times 1 \times 1$

### Standard form

Standard form numbers are of the form:  $a \times 10^n$  where  $1 \leq a < 10$  and  $n$  is an integer.  
•  $100 = 1 \times 10^2$

### Scientific notation

1 atom = 0.000 000 1 kilograms  
1 kilogram = 1 000 grams  
1 kilometre = 1 000 metres  
1 metre = 100 centimetres  
1 centimetre = 10 millimetres  
1 day = 24 hours  
1 hour = 60 minutes = 3 600 seconds  
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### Area and perimeter

1 square = 10 000 square centimetres  
1 square centimetre = 100 square millimetres  
1 square millimetre = 100 square micrometres

### Volume

1 cubic metre = 1 000 litres  
1 litre = 1 000 millilitres  
1 millilitre = 1 cubic centimetre

### Speed, distance, time

Speed =  $\frac{\text{distance}}{\text{time}}$   
Distance =  $\text{speed} \times \text{time}$   
Time =  $\frac{\text{distance}}{\text{speed}}$

### Area and perimeter

Area of rectangle =  $\text{length} \times \text{width}$   
Perimeter of rectangle =  $2 \times (\text{length} + \text{width})$

### Area and perimeter

Area of triangle =  $\frac{1}{2} \times \text{base} \times \text{height}$   
Perimeter of triangle =  $\text{side}_1 + \text{side}_2 + \text{side}_3$

### Area and perimeter

Area of circle =  $\pi r^2$   
Circumference of circle =  $2\pi r$

### Area and perimeter

Area of square =  $\text{side}^2$   
Perimeter of square =  $4 \times \text{side}$

### Area and perimeter

Area of parallelogram =  $\text{base} \times \text{height}$   
Perimeter of parallelogram =  $2 \times (\text{side}_1 + \text{side}_2)$

### Area and perimeter

Area of trapezium =  $\frac{1}{2} \times (\text{top} + \text{bottom}) \times \text{height}$   
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**Katrin Zwirglmaier**



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