

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

## Proportion notation

Fraction in numerator = denominator  
•  $\frac{1}{2} \text{ of } 10 = \frac{1}{2} \times 10 = 5$

## Percentages

Use the given value to change decimals or fractions. Multiply where possible.  
•  $0.45 = \frac{45}{100} = \frac{9}{20}$

## Least frequently used ones

100	1000	10000	100000	1000000
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## Algebra

Look for the biggest square number factor of the coefficient.  
•  $100 = 10 \times 10$  or  $2 \times 2 \times 5 \times 5$

## Standard form

Standard form numbers are of the form:  $a \times 10^n$  where  $1 \leq a < 10$  and  $n$  is an integer.  
•  $1000 = 1 \times 10^3$

## Scientific notation

1 atom = 0.000 000 1 kilograms  
1 kilogram = 1 000 grams  
1 electron = 0.000 000 911 kilograms  
1 metre = 100 centimetres = 1 000 millimetres  
1 centimetre = 10 millimetres

## Time

1 day = 24 hours  
1 hour = 60 minutes = 3 600 seconds  
1 minute = 60 seconds

## Area and perimeter

Calculate the perimeter, then use it to 'double' (if) to find area or vice versa.  
• Perimeter of 12 cm, 12 cm, 12 cm, 12 cm  
Area = 12 cm  $\times$  12 cm = 144 cm<sup>2</sup>

## Volume

Volume of a cube = side  $\times$  side  $\times$  side  
• Side = 5 cm  
Volume = 5 cm  $\times$  5 cm  $\times$  5 cm = 125 cm<sup>3</sup>

## Area of a triangle

Area of a triangle =  $\frac{1}{2} \times \text{base} \times \text{height}$   
• Base = 10 cm, Height = 5 cm  
Area =  $\frac{1}{2} \times 10 \times 5 = 25 \text{ cm}^2$

## Area of a rectangle

Area of a rectangle = length  $\times$  width  
• Length = 10 cm, Width = 5 cm  
Area = 10 cm  $\times$  5 cm = 50 cm<sup>2</sup>

## Area of a circle

Area of a circle =  $\pi r^2$   
• Radius = 5 cm  
Area =  $\pi \times 5^2 = 25\pi \text{ cm}^2$

## Area of a sector

Area of a sector =  $\frac{\theta}{360} \times \pi r^2$   
• Radius = 5 cm, Angle = 90 degrees  
Area =  $\frac{90}{360} \times \pi \times 5^2 = \frac{25\pi}{4} \text{ cm}^2$

## Area of a trapezium

Area of a trapezium =  $\frac{1}{2} \times (\text{top} + \text{bottom}) \times \text{height}$   
• Top = 10 cm, Bottom = 5 cm, Height = 5 cm  
Area =  $\frac{1}{2} \times (10 + 5) \times 5 = 37.5 \text{ cm}^2$

## Area of a parallelogram

Area of a parallelogram = base  $\times$  height  
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## Area of a rhombus

Area of a rhombus =  $\frac{1}{2} \times \text{diagonal 1} \times \text{diagonal 2}$   
• Diagonal 1 = 10 cm, Diagonal 2 = 5 cm  
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## Area of a kite

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## Area of a hexagon

Area of a hexagon =  $\frac{3\sqrt{3}}{2} s^2$   
• Side = 5 cm  
Area =  $\frac{3\sqrt{3}}{2} \times 5^2 = \frac{75\sqrt{3}}{2} \text{ cm}^2$

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There is plenty more to the Foundation Tier content, so make the most of it! Use all the content, including all the exercises you are provided with, to help you learn. The content is designed to help you learn. The content is designed to help you learn. The content is designed to help you learn.

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## Time

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**Mark Steyvers**



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