

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.
• $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

Working fractions 'top' the second fraction

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

Problems involving

Fraction in numerator = denominator
• $\frac{1}{2} \div \frac{1}{2} = \frac{1}{2} \times \frac{2}{1} = 1$

Use the given values to change decimals or fractions. Multiply where possible.

• $0.45 \times \frac{100}{100} = \frac{45}{100}$
Leave the most frequently used ones

10	100	1000	10000	100000	1000000
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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.

Scientific notation

1 metre = 1000 millimetres
1 kilometre = 1000 metres
1 metre = 100 centimetres
= 1000 millimetres
1 centimetre = 10 millimetres

1 day = 24 hours
1 hour = 60 minutes = 3600 seconds
1 minute = 60 seconds

Converting

Transfer the number, then add or 'multiply/divide' by moved up or down.
Decimal places: use the decimal point.
• 100.1001 = 100.1001

Significant figures

Significant figures: use the first non-zero digit.
• 100.1001 to 3sf: 100
• 10.1001 to 3sf: 10.1
• 1.01001 to 3sf: 1.01
• 0.101001 to 3sf: 0.101

Order notation

Find the range of numbers that will round to a given value.
• $x = 5.55$ (2 decimal places)
 $5.55 \leq x < 5.56$
• $x = 55$ (2 significant figures)
 $55 \leq x < 56$

Use of $\leq$ and $<$, and that the last significant figure is 5

Approximate values
• 20 ± 2
 20 ± 2 means $18 \leq x \leq 22$
• 20 ± 2 means $18 < x < 22$

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Approximate values

It is important to know for some particular values of x
• 20 ± 2 means $18 \leq x \leq 22$
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Approximate values

For any value x
 $a^2 \pm b^2 = (a+b)(a-b)$
 $a^2 \pm b^2 = (a-b)(a+b)$

Approximate values

The subject of a formula is the letter on the left, the rules that 'isolate' the formula to change the subject.
• Make x the subject of $2x + 3y = 10$
 $2x + 3y = 10$
 $2x = 10 - 3y$
 $x = \frac{10 - 3y}{2}$

• $\frac{1}{2}(10 - 3y) = 5 - \frac{3}{2}y$

Geometry & measures



Area and volume

Equation of straight line $y = mx + c$ as in the graph, c is the y -intercept.
• Find the equation of the line that joins (0, 2) to (2, 1).
Find the gradient.
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$
• Use the y -intercept.
From the graph, $y = mx + c$
Equation is $y = -\frac{1}{2}x + 2$

Area and volume

Parallel lines: gradients are equal.
• $y = 2x + 3$ and $y = 2x + 5$ both have gradient 2 so are parallel.

Working with area

$plg = a^2 \Rightarrow plg = p^2$
 $100 \times 100 = 100 \times 100$
 $100 \times 100 = 100 \times 100$
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Area and volume

Area of triangle = $\frac{1}{2} \times \text{base} \times \text{height}$
Volume of cuboid = $\text{length} \times \text{width} \times \text{height}$

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Algebra



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The longest side of any right-angled triangle is the hypotenuse. Check that your answer is consistent with this.

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100	1000	10000	100000
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WJ Hussar



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web note for conceptual conformance to iso 13567 organization and naming of layers for cad the layer name format and length must be the same for all layers on a given project see clg appendix c complying with ncs and iso 13567 clg section 6 0 for information about iso conformance Δ the discipline designator denotes the category of subject

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