

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: multiply numerators and denominators...

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

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 a number as a product...

• $12 = 2 \times 2 \times 3$

Use prime factorisation to simplify fractions...

• $\frac{12}{18} = \frac{2 \times 2 \times 3}{2 \times 3 \times 3} = \frac{2}{3}$

Use prime factorisation to find the LCM of two numbers...

• LCM of 6 and 9 is 18

Use prime factorisation to find the HCF of two numbers...

• HCF of 6 and 9 is 3

Use prime factorisation to simplify surds...

• $\sqrt{12} = \sqrt{2 \times 2 \times 3} = 2\sqrt{3}$

Use prime factorisation to simplify fractions...

• $\frac{12}{18} = \frac{2 \times 2 \times 3}{2 \times 3 \times 3} = \frac{2}{3}$

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• HCF of 6 and 9 is 3

Use prime factorisation to simplify surds...

• $\sqrt{12} = \sqrt{2 \times 2 \times 3} = 2\sqrt{3}$

Algebra

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

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 atom = 0.000 000 000 000 000 000 000 kg
1 kilogram = 1 000 grams
1 kilometre = 1 000 metres
1 metre = 100 centimetres
1 centimetre = 10 millimetres

Units

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

Area and perimeter

Calculate the perimeter, then use it to 'guess' the area

• Perimeter of 12 is 12, 18, 24, ...

• Area of 12 is 12, 18, 24, ...

• Perimeter of 18 is 18, 24, 30, ...

• Area of 18 is 18, 24, 30, ...

• Perimeter of 24 is 24, 30, 36, ...

• Area of 24 is 24, 30, 36, ...

• Perimeter of 30 is 30, 36, 42, ...

• Area of 30 is 30, 36, 42, ...

• Perimeter of 36 is 36, 42, 48, ...

• Area of 36 is 36, 42, 48, ...

• Perimeter of 42 is 42, 48, 54, ...

• Area of 42 is 42, 48, 54, ...

• Perimeter of 48 is 48, 54, 60, ...

• Area of 48 is 48, 54, 60, ...

• Perimeter of 54 is 54, 60, 66, ...

• Area of 54 is 54, 60, 66, ...

• Perimeter of 60 is 60, 66, 72, ...

• Area of 60 is 60, 66, 72, ...

• Perimeter of 66 is 66, 72, 78, ...

• Area of 66 is 66, 72, 78, ...

• Perimeter of 72 is 72, 78, 84, ...

• Area of 72 is 72, 78, 84, ...

• Perimeter of 78 is 78, 84, 90, ...

• Area of 78 is 78, 84, 90, ...

• Perimeter of 84 is 84, 90, 96, ...

• Area of 84 is 84, 90, 96, ...

• Perimeter of 90 is 90, 96, 102, ...

• Area of 90 is 90, 96, 102, ...

• Perimeter of 96 is 96, 102, 108, ...

• Area of 96 is 96, 102, 108, ...

• Perimeter of 102 is 102, 108, 114, ...

• Area of 102 is 102, 108, 114, ...

• Perimeter of 108 is 108, 114, 120, ...

• Area of 108 is 108, 114, 120, ...

• Perimeter of 114 is 114, 120, 126, ...

• Area of 114 is 114, 120, 126, ...

Geometry & measures

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• Area of 48 is 48, 54, 60, ...

• Perimeter of 54 is 54, 60, 66, ...

• Area of 54 is 54, 60, 66, ...

• Perimeter of 60 is 60, 66, 72, ...

• Area of 60 is 60, 66, 72, ...

• Perimeter of 66 is 66, 72, 78, ...

• Area of 66 is 66, 72, 78, ...

• Perimeter of 72 is 72, 78, 84, ...

• Area of 72 is 72, 78, 84, ...

• Perimeter of 78 is 78, 84, 90, ...

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• Perimeter of 96 is 96, 102, 108, ...

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• Area of 102 is 102, 108, 114, ...

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H. Rees, P. Wharton



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web oct 5 2023 acid base titration theory procedure self evaluation simulator assignment reference feedback objective to determine the amount of substance in a solution of unknown concentration using various titrimetric methods theory titration the word titration comes from the latin word titulus which means inscription or title

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web where the salt is the conjugate base of the acid the four parts of the titration curve are described below and you should look to the appropriate text section to see how they are treated pure acid 0 ml of base is added section 17.3.2.1

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web solution a titrant volume 0 ml the solution ph is due to the acid ionization of HCl because this is a strong acid the

ionization is complete and the hydronium ion molarity is 0.100 M the pH of the solution is then $\text{pH} = -\log 0.100 = 1.000$
 100.1000 b titrant volume 12.50 ml

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web what is a titration a titration is an analytical procedure used to determine the accurate concentration of a sample by reacting it with a standard solution one type of titration uses a neutralization reaction in which an acid and a base react to produce a salt and water

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web at the equivalence point in an acid base titration moles of base = moles of acid and the solution only contains salt and water acid base titrations are monitored by the change of pH as titration progresses

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web expert answer 100% 2 ratings the example is based upon Henderson Hasselbalch equation the equation gives relation between pH and pKa of weak acid the equation is $\text{pH} = \text{pK}_a + \log \frac{[\text{salt}]}{[\text{acid}]}$ at equivalence point all a view the full answer transcribed image text

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web titration curves source openstax chemistry atoms first 2e strong acid strong base titrations when titrating a strong acid such as hydrochloric acid with sodium hydroxide you are reacting the HCl directly with NaOH $\text{HCl(aq)} + \text{NaOH(aq)} \rightarrow \text{H}_2\text{O(l)} + \text{NaCl(aq)}$

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web ab acid base titration curves purpose the purpose of this lab is to determine the shape of acid base titration curves theoretically and experimentally and to use an acid base titration to measure the effectiveness of antacid tablets summary a titration curve is the plot of the pH value of a solution vs the amount of titrant added

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web Aug 30 2022 acid base titrations are usually used to find the amount of a known acidic or basic substance through acid base reactions the analyte titrand is the solution with an unknown molarity the reagent titrant is the solution with a known molarity that will react with the analyte

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web ph titration graph 1 lab data provide columns a and b 2 a graph of ph column b plotted as ordinate vs volume column a as abscissa provides a titration curve as illustrated by graph 1 or 2 below 3 estimate of the midpoint of the steeply rising section of the titration curve provides an evaluation of the equivalence point

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web acid base reactions can be used to determine concentrations of an acid or a base using stoichiometric calculations and titrimetric analysis the volume of a solution required to react

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web background plot of the ph of a solution against the volume of titrant added is called a titration curve the ph can be measured directly with a ph meter while titrant is added from a buret for the acids used in this experiment the titrant will always be a 0.1 M solution of the strong base naoh

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web oct 30 2022 there are two basic types of acid base titrations indicator and potentiometric in an indicator based titration you add another chemical that changes color at the ph equal to the equivalence point when the acid and base are in

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web rp 1 make up a volumetric solution and carry out a simple acid base titration physical chemistry acids and bases ph curves titrations and indicators titrations of acids with bases students should be able to perform calculations for these titrations based on experimental results inorganic chemistry transition metals variable

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web strong acids and strong bases completely ionize in solution resulting in water and a salt for a weak acid there is only partial ionization the titration curve of a strong base strong acid showed a stretched out curve as it started with a slow gradual change in ph as it reached the equivalence point