

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 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 values 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	10000000	100000000	1000000000
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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.

Scientific units

1 metre = 1000 millimetres
1 kilometre = 1000 metres
1 minute = 60 seconds
1 hour = 60 minutes = 3600 seconds
1 second = 1000 milliseconds
1 day = 24 hours
1 hour = 60 minutes = 3600 seconds
1 minute = 60 seconds

Area and perimeter

Calculate the perimeter, then use it to 'double' (if) to find area or vice versa.
Perimeter (units) = the distance round.
• Perimeter of 12 is 12 units.
• Area of 12 is 12 units².

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Geometry & measures



Area and perimeter

Equation of straight line $y = mx + c$ as in the graph, c is the y -intercept.
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Area and perimeter

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

Area and perimeter

Area of a rectangle = length \times width
• $10 \times 5 = 50$
Perimeter of a rectangle = $2 \times$ length + $2 \times$ width
• $2 \times 10 + 2 \times 5 = 30$

Area and perimeter

Area of a triangle = $\frac{1}{2} \times$ base \times height
• $\frac{1}{2} \times 10 \times 5 = 25$
Perimeter of a triangle = sum of all three sides
• $10 + 5 + 5 = 20$

Area and perimeter

Area of a circle = πr^2
• $\pi \times 5^2 = 25\pi$
Circumference of a circle = $2\pi r$
• $2\pi \times 5 = 10\pi$

Area and perimeter

Area of a trapezium = $\frac{1}{2} \times$ (sum of parallel sides) \times height
• $\frac{1}{2} \times (10 + 5) \times 5 = 37.5$
Perimeter of a trapezium = sum of all four sides
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Area and perimeter

Area of a parallelogram = base \times height
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Area and perimeter

Area of a rhombus = side \times height
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Perimeter of a rhombus = $4 \times$ side
• $4 \times 10 = 40$

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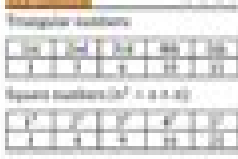
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SB Merriam

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Table of Contents Pixl Maths Paper 2015 Calculator

1. Understanding the eBook Pixl Maths Paper 2015 Calculator
 - The Rise of Digital Reading Pixl Maths Paper 2015 Calculator
 - Advantages of eBooks Over Traditional Books
2. Identifying Pixl Maths Paper 2015 Calculator
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pixl Maths Paper 2015 Calculator
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pixl Maths Paper 2015 Calculator
 - Personalized Recommendations
 - Pixl Maths Paper 2015 Calculator User Reviews and Ratings
 - Pixl Maths Paper 2015 Calculator and Bestseller Lists
5. Accessing Pixl Maths Paper 2015 Calculator Free and Paid eBooks
 - Pixl Maths Paper 2015 Calculator Public Domain eBooks
 - Pixl Maths Paper 2015 Calculator eBook Subscription Services
 - Pixl Maths Paper 2015 Calculator Budget-Friendly Options

6. Navigating Pixl Maths Paper 2015 Calculator eBook Formats
 - ePub, PDF, MOBI, and More
 - Pixl Maths Paper 2015 Calculator Compatibility with Devices
 - Pixl Maths Paper 2015 Calculator Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pixl Maths Paper 2015 Calculator
 - Highlighting and Note-Taking Pixl Maths Paper 2015 Calculator
 - Interactive Elements Pixl Maths Paper 2015 Calculator
8. Staying Engaged with Pixl Maths Paper 2015 Calculator
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pixl Maths Paper 2015 Calculator
9. Balancing eBooks and Physical Books Pixl Maths Paper 2015 Calculator
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pixl Maths Paper 2015 Calculator
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pixl Maths Paper 2015 Calculator
 - Setting Reading Goals Pixl Maths Paper 2015 Calculator
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pixl Maths Paper 2015 Calculator
 - Fact-Checking eBook Content of Pixl Maths Paper 2015 Calculator
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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