

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
• $\frac{1}{2} \text{ of } 10 = \frac{1}{2} \times 10 = 5$

Area of a rectangle

Use the area of a rectangle to find the area of a shape.
• $10 \times 5 = 50$

Area of a triangle

Use the area of a triangle to find the area of a shape.
• $\frac{1}{2} \times 10 \times 5 = 25$

Area of a circle

Use the area of a circle to find the area of a shape.
• $\pi r^2 = \pi \times 5^2 = 25\pi$

Area of a sector

Use the area of a sector to find the area of a shape.
• $\frac{\theta}{360} \times \pi r^2 = \frac{60}{360} \times \pi \times 5^2 = \frac{25\pi}{6}$

Algebra

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

Algebraic terms

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

Algebraic terms

1 square = 10000 kilograms
1 kilogram = 1000 grams

Algebraic terms

1 kilometre = 1000 metres
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Algebraic terms

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Michael Brown



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Table of Contents Pixl Maths Higher Calculator 2015 Edexcel Style

1. Understanding the eBook Pixl Maths Higher Calculator 2015 Edexcel Style
 - The Rise of Digital Reading Pixl Maths Higher Calculator 2015 Edexcel Style
 - Advantages of eBooks Over Traditional Books
2. Identifying Pixl Maths Higher Calculator 2015 Edexcel Style
 - 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 Higher Calculator 2015 Edexcel Style
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pixl Maths Higher Calculator 2015 Edexcel Style
 - Personalized Recommendations
 - Pixl Maths Higher Calculator 2015 Edexcel Style User Reviews and Ratings
 - Pixl Maths Higher Calculator 2015 Edexcel Style and Bestseller Lists

5. Accessing Pixl Maths Higher Calculator 2015 Edexcel Style Free and Paid eBooks
 - Pixl Maths Higher Calculator 2015 Edexcel Style Public Domain eBooks
 - Pixl Maths Higher Calculator 2015 Edexcel Style eBook Subscription Services
 - Pixl Maths Higher Calculator 2015 Edexcel Style Budget-Friendly Options
6. Navigating Pixl Maths Higher Calculator 2015 Edexcel Style eBook Formats
 - ePub, PDF, MOBI, and More
 - Pixl Maths Higher Calculator 2015 Edexcel Style Compatibility with Devices
 - Pixl Maths Higher Calculator 2015 Edexcel Style Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pixl Maths Higher Calculator 2015 Edexcel Style
 - Highlighting and Note-Taking Pixl Maths Higher Calculator 2015 Edexcel Style
 - Interactive Elements Pixl Maths Higher Calculator 2015 Edexcel Style
8. Staying Engaged with Pixl Maths Higher Calculator 2015 Edexcel Style
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pixl Maths Higher Calculator 2015 Edexcel Style
9. Balancing eBooks and Physical Books Pixl Maths Higher Calculator 2015 Edexcel Style
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pixl Maths Higher Calculator 2015 Edexcel Style
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pixl Maths Higher Calculator 2015 Edexcel Style
 - Setting Reading Goals Pixl Maths Higher Calculator 2015 Edexcel Style
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pixl Maths Higher Calculator 2015 Edexcel Style
 - Fact-Checking eBook Content of Pixl Maths Higher Calculator 2015 Edexcel Style
 - 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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