

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
 $a^0 = 1$

$$a^1 = a$$

$$a^2 = a \times a$$

$$a^3 = a \times a \times a$$

$$a^4 = a \times a \times a \times a$$

$$a^5 = a \times a \times a \times a \times a$$

$$a^6 = a \times a \times a \times a \times a \times a$$

$$a^7 = a \times a \times a \times a \times a \times a \times a$$

$$a^8 = a \times a \times a \times a \times a \times a \times a \times a$$

$$a^9 = a \times a \times a \times a \times a \times a \times a \times a \times a$$

$$a^{10} = a \times a \times a \times a \times a \times a \times a \times a \times a \times a$$

$$a^{11} = a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a$$

$$a^{12} = a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a$$

$$a^{13} = a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a$$

$$a^{14} = a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a$$

$$a^{15} = a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a$$

$$a^{16} = a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a$$

$$a^{17} = a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a$$

$$a^{18} = a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a$$

$$a^{19} = a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a$$

$$a^{20} = a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a \times a$$

$$a^{21} = a \times a$$

$$a^{22} = a \times a$$

$$a^{23} = a \times a$$

$$a^{24} = a \times a$$

$$a^{25} = a \times a$$

$$a^{26} = a \times a$$

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 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

1 day = 24 hours

1 hour = 60 minutes = 3 600 seconds

1 minute = 60 seconds

1 second = 1 000 milliseconds

1 millisecond = 1 000 microseconds

1 microsecond = 1 000 nanoseconds

1 nanosecond = 1 000 picoseconds

1 picosecond = 1 000 femtoseconds

1 femtosecond = 1 000 attoseconds

1 attosecond = 1 000 zeptoseconds

1 zeptosecond = 1 000 yoctoseconds

1 yoctosecond = 1 000 rontoseconds

1 rontosecond = 1 000 quectoseconds

1 quectosecond = 1 000 septoseconds

1 septosecond = 1 000 octoseconds

1 octosecond = 1 000 nonaseconds

1 nonasecond = 1 000 decaseconds

1 decasecond = 10 seconds

1 hectosecond = 100 seconds

1 kilosecond = 1 000 seconds

1 megasecond = 1 000 000 seconds

1 gigasecond = 1 000 000 000 seconds

1 terasecond = 1 000 000 000 000 seconds

1 petasecond = 1 000 000 000 000 000 seconds

1 exasecond = 1 000 000 000 000 000 000 seconds

1 zettasecond = 1 000 000 000 000 000 000 000 seconds

1 yottasecond = 1 000 000 000 000 000 000 000 000 seconds

1 rontosecond = 1 000 000 000 000 000 000 000 000 000 seconds

1 quectosecond = 1 000 000 000 000 000 000 000 000 000 000 seconds

1 septosecond = 1 000 000 000 000 000 000 000 000 000 000 000 seconds

1 octosecond = 1 000 000 000 000 000 000 000 000 000 000 000 000 seconds

1 nonasecond = 1 000 000 000 000 000 000 000 000 000 000 000 000 000 seconds

1 decasecond = 10 seconds

1 hectosecond = 100 seconds

1 kilosecond = 1 000 seconds

1 megasecond = 1 000 000 seconds

1 gigasecond = 1 000 000 000 seconds

1 terasecond = 1 000 000 000 000 seconds

1 petasecond = 1 000 000 000 000 000 seconds

1 exasecond = 1 000 000 000 000 000 000 seconds

Geometry & measures

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 its gradient.

Find its y -intercept.

Find its x -intercept.

Find its area.

Find its perimeter.

Find its volume.

Find its surface area.

Find its density.

Find its mass.

Find its weight.

Find its length.

Find its width.

Find its height.

Find its depth.

Find its radius.

Find its diameter.

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Find its diameter.

Find its circumference.

Find its area.

Find its volume.

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Find its density.

Find its mass.

Find its weight.

Find its length.

Find its width.

Find its height.

Find its depth.

Find its radius.

Find its diameter.

Find its circumference.

Find its area.

Find its volume.

Find its surface area.

Find its density.

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Table of Contents Pixl Maths Higher Paper 24

1. Understanding the eBook Pixl Maths Higher Paper 24
 - The Rise of Digital Reading Pixl Maths Higher Paper 24
 - Advantages of eBooks Over Traditional Books
2. Identifying Pixl Maths Higher Paper 24
 - 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 Paper 24
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pixl Maths Higher Paper 24
 - Personalized Recommendations
 - Pixl Maths Higher Paper 24 User Reviews and Ratings
 - Pixl Maths Higher Paper 24 and Bestseller Lists
5. Accessing Pixl Maths Higher Paper 24 Free and Paid eBooks
 - Pixl Maths Higher Paper 24 Public Domain eBooks
 - Pixl Maths Higher Paper 24 eBook Subscription Services
 - Pixl Maths Higher Paper 24 Budget-Friendly Options
6. Navigating Pixl Maths Higher Paper 24 eBook Formats

- ePub, PDF, MOBI, and More
- Pixl Maths Higher Paper 24 Compatibility with Devices
- Pixl Maths Higher Paper 24 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pixl Maths Higher Paper 24
 - Highlighting and Note-Taking Pixl Maths Higher Paper 24
 - Interactive Elements Pixl Maths Higher Paper 24
- 8. Staying Engaged with Pixl Maths Higher Paper 24
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pixl Maths Higher Paper 24
- 9. Balancing eBooks and Physical Books Pixl Maths Higher Paper 24
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pixl Maths Higher Paper 24
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pixl Maths Higher Paper 24
 - Setting Reading Goals Pixl Maths Higher Paper 24
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pixl Maths Higher Paper 24
 - Fact-Checking eBook Content of Pixl Maths Higher Paper 24
 - 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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