

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

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

Problems involving a - denominator
• $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$
The given values change directly or inversely, depending where possible.
• $a \propto b \Rightarrow \frac{a}{b} = \frac{1}{2}$

Least of the most frequently used ones

100	10	1	0.1	0.01	0.001
100	10	1	0.1	0.01	0.001

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 square = 10000 kilograms
1 kilogram = 1000 grams
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 'transfer' digits to 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 of operations

Find the range of numbers that will result in a given value.
• $x = 5$ (2 decimal places)
 $0.005 \leq x \leq 0.005$
• $x = 10$ (2 significant figures)
 $10.5 \leq x \leq 10.5$
Note use of $\leq$ and $\geq$, and that the last significant figure is in 5.

Algebraic notation

$a^2 + a + b$
 $2a + a + b = 3a + b$
 $a^2 + a + a + b = 2a^2 + 2a + b$
 $a^2 + a + a + a + b = 3a^2 + 3a + b$
 $a^2 + a + a + a + a + b = 4a^2 + 4a + b$
 $a^2 + a + a + a + a + a + b = 5a^2 + 5a + b$

Equations and inequalities

An equation is true for some particular value of x
• $2x + 1 = 5$ is true for $x = 2$
• You can identify a formula for every value of x
• $2x + 1 = 5$ is true for $x = 2$
(note the use of the equals sign)

Order of operations

For any value x
 $a^2 + a^2 + a^2 = 3a^2$
 $a^2 + a^2 + a^2 = 3a^2$
 $a^2 + a^2 + a^2 = 3a^2$
 $a^2 + a^2 + a^2 = 3a^2$

• $(\frac{1}{100})^2 = \frac{1}{10000} = \frac{1}{10^4} = 10^{-4}$

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.
 $\frac{1-2}{2-0} = \frac{-1}{2} = -\frac{1}{2}$
...and the y -intercept.
From the graph (0, 2) so $c = 2$
Equation is $y = -\frac{1}{2}x + 2$

Pythagoras' Theorem

Pythagoras' Theorem: In a right-angled triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.
• $a^2 + b^2 = c^2$
Special values of a , b , c are: 3, 4, 5; 5, 12, 13; 7, 24, 25; 8, 15, 17; 9, 40, 41; 10, 24, 26; 11, 60, 61; 12, 35, 37; 13, 84, 85; 14, 48, 50; 15, 36, 39; 16, 63, 65; 17, 144, 145; 18, 80, 82; 19, 180, 181; 20, 96, 98; 21, 196, 197; 22, 165, 167; 23, 252, 253; 24, 144, 145; 25, 250, 251; 26, 169, 170; 27, 270, 271; 28, 196, 197; 29, 280, 281; 30, 225, 226; 31, 296, 297; 32, 256, 257; 33, 324, 325; 34, 289, 290; 35, 360, 361; 36, 324, 325; 37, 396, 397; 38, 361, 362; 39, 441, 442; 40, 400, 401; 41, 484, 485; 42, 441, 442; 43, 529, 530; 44, 500, 501; 45, 576, 577; 46, 556, 557; 47, 640, 641; 48, 624, 625; 49, 709, 710; 50, 700, 701; 51, 781, 782; 52, 769, 770; 53, 861, 862; 54, 850, 851; 55, 940, 941; 56, 928, 929; 57, 1025, 1026; 58, 1014, 1015; 59, 1104, 1105; 60, 1092, 1093; 61, 1184, 1185; 62, 1172, 1173; 63, 1261, 1262; 64, 1250, 1251; 65, 1340, 1341; 66, 1328, 1329; 67, 1417, 1418; 68, 1405, 1406; 69, 1494, 1495; 70, 1482, 1483; 71, 1573, 1574; 72, 1561, 1562; 73, 1651, 1652; 74, 1640, 1641; 75, 1730, 1731; 76, 1718, 1719; 77, 1809, 1810; 78, 1797, 1798; 79, 1888, 1889; 80, 1876, 1877; 81, 1967, 1968; 82, 1955, 1956; 83, 2047, 2048; 84, 2035, 2036; 85, 2126, 2127; 86, 2114, 2115; 87, 2205, 2206; 88, 2193, 2194; 89, 2284, 2285; 90, 2272, 2273; 91, 2363, 2364; 92, 2351, 2352; 93, 2442, 2443; 94, 2430, 2431; 95, 2521, 2522; 96, 2509, 2510; 97, 2588, 2589; 98, 2576, 2577; 99, 2667, 2668; 100, 2655, 2656.

Volume of solids

Volume of a solid = area of base $\times$ height
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• Volume of a frustum of a cylinder with a conical hole and a hemispherical hole = $\frac{1}{3} h (R^2 + Rr + r^2) - \frac{1}{3} \pi r^2 h - \frac{2}{3} \pi r^3$
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Rachel S Tattersall



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Table of Contents Pixl Higher Maths Predicted Paper 2014

1. Understanding the eBook Pixl Higher Maths Predicted Paper 2014
 - The Rise of Digital Reading Pixl Higher Maths Predicted Paper 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Pixl Higher Maths Predicted Paper 2014
 - 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 Higher Maths Predicted Paper 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pixl Higher Maths Predicted Paper 2014
 - Personalized Recommendations
 - Pixl Higher Maths Predicted Paper 2014 User Reviews and Ratings
 - Pixl Higher Maths Predicted Paper 2014 and Bestseller Lists
5. Accessing Pixl Higher Maths Predicted Paper 2014 Free and Paid eBooks
 - Pixl Higher Maths Predicted Paper 2014 Public Domain eBooks
 - Pixl Higher Maths Predicted Paper 2014 eBook Subscription Services
 - Pixl Higher Maths Predicted Paper 2014 Budget-Friendly Options
6. Navigating Pixl Higher Maths Predicted Paper 2014 eBook Formats

- ePub, PDF, MOBI, and More
- Pixl Higher Maths Predicted Paper 2014 Compatibility with Devices
- Pixl Higher Maths Predicted Paper 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pixl Higher Maths Predicted Paper 2014
 - Highlighting and Note-Taking Pixl Higher Maths Predicted Paper 2014
 - Interactive Elements Pixl Higher Maths Predicted Paper 2014
- 8. Staying Engaged with Pixl Higher Maths Predicted Paper 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pixl Higher Maths Predicted Paper 2014
- 9. Balancing eBooks and Physical Books Pixl Higher Maths Predicted Paper 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pixl Higher Maths Predicted Paper 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pixl Higher Maths Predicted Paper 2014
 - Setting Reading Goals Pixl Higher Maths Predicted Paper 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pixl Higher Maths Predicted Paper 2014
 - Fact-Checking eBook Content of Pixl Higher Maths Predicted Paper 2014
 - 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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