

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 number 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.
• $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

Problems involving

Fraction in a number = denominator
• $\frac{1}{3}$ of 6 = $\frac{6}{3} = 2$
The given value is always divided by the fraction. Multiply where possible.
• $6 \div \frac{1}{3} = 6 \times \frac{3}{1} = 18$

Least of the most frequently used ones

+	-	×	÷	+	-	×	÷
1	1	1	1	1	1	1	1

Algebra

Look for the biggest square number factor of the coefficient.
• $12x^2 = 4 \times 3 \times x^2 = 4x^2 \times 3x^2$

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 = 1 000 millimetres
1 centimetre = 10 millimetres

1 day = 24 hours
1 hour = 60 minutes = 3 600 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, 1000, 10000, ...
100, 10, 1, 0.1, 0.01, 0.001, ...

Significant figures

Significant figures: use the first non-zero digit.
• 100, 1000, 10000, ...
10, 100, 1000, 10000, ...
1000, 10000, 100000, ...
10000, 100000, 1000000, ...

Order of operations

Find the order of numbers that will result in a given value.
• $a = 5, b = 10$ (2 decimal places)
 $5.000 \times 2 = 10.000$
• $a = 5, b = 10$ (2 significant figures)
 $5.0 \times 2 = 10.0$

Algebraic notation

$a^2 + a + 1$
 $a^2 + a + 1 = a^2 + a + 1$
 $a^2 + a + 1 = a^2 + a + 1$
 $a^2 + a + 1 = a^2 + a + 1$
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Equations and inequalities

An equation is true for some particular value of x
• $2x + 1 = 5$ is true for $x = 2$
• You can always solve for any value of x
• $2x + 1 = 5$ is true for $x = 2$
• You can always solve for any value of x

Area of a circle

For any circle:
 $A = \pi r^2$
 $A = \pi r^2$
 $A = \pi r^2$
 $A = \pi r^2$

Area of a circle

$A = \pi r^2$

Geometry & measures



Area and volume

Equation of straight line $y = mx + c$ or $y = mx$ as in the gradient, c is the y -intercept.
• Find the equation of the line that joins (0, 2) to (2, 1).
Find the gradient:
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$
...and the y -intercept.
From the line $y = mx + c$, $2 = -\frac{1}{2} \times 0 + c$
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, 104; 21, 208, 209; 22, 165, 167; 23, 264, 265; 24, 100, 104; 25, 252, 253; 26, 169, 173; 27, 288, 289; 28, 196, 200; 29, 244, 245; 30, 144, 150; 31, 230, 233; 32, 160, 168; 33, 264, 265; 34, 169, 173; 35, 231, 233; 36, 144, 150; 37, 244, 245; 38, 169, 173; 39, 231, 233; 40, 144, 150; 41, 230, 233; 42, 168, 174; 43, 244, 245; 44, 176, 180; 45, 225, 229; 46, 180, 186; 47, 244, 245; 48, 196, 200; 49, 245, 249; 50, 150, 156; 51, 252, 253; 52, 168, 174; 53, 265, 269; 54, 180, 186; 55, 264, 265; 56, 196, 200; 57, 273, 275; 58, 200, 206; 59, 280, 281; 60, 180, 186; 61, 288, 289; 62, 200, 206; 63, 288, 289; 64, 200, 206; 65, 288, 289; 66, 200, 206; 67, 288, 289; 68, 200, 206; 69, 288, 289; 70, 200, 206; 71, 288, 289; 72, 200, 206; 73, 288, 289; 74, 200, 206; 75, 288, 289; 76, 200, 206; 77, 288, 289; 78, 200, 206; 79, 288, 289; 80, 200, 206; 81, 288, 289; 82, 200, 206; 83, 288, 289; 84, 200, 206; 85, 288, 289; 86, 200, 206; 87, 288, 289; 88, 200, 206; 89, 288, 289; 90, 200, 206; 91, 288, 289; 92, 200, 206; 93, 288, 289; 94, 200, 206; 95, 288, 289; 96, 200, 206; 97, 288, 289; 98, 200, 206; 99, 288, 289; 100, 200, 206

Volume of a solid

Volume of a solid = area of base $\times$ height
• Volume of a cube = side $\times$ side $\times$ side
• Volume of a cylinder = area of base $\times$ height
• Volume of a cone = $\frac{1}{3}$ area of base $\times$ height
• Volume of a sphere = $\frac{4}{3}\pi r^3$
• Volume of a hemisphere = $\frac{2}{3}\pi r^3$
• Volume of a frustum = $\frac{1}{3}h(a^2 + ab + b^2)$
• Volume of a pyramid = $\frac{1}{3}$ area of base $\times$ height
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• Volume of a cone = $\frac{1}{3}$ area of base $\times$ height
• Volume of a sphere = $\frac{4}{3}\pi r$

Pixl Maths Practice Paper 1a Nov 2013

Lingjun Ying



Pixl Maths Practice Paper 1a Nov 2013:

The Enigmatic Realm of **Pixl Maths Practice Paper 1a Nov 2013**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Pixl Maths Practice Paper 1a Nov 2013** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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Table of Contents Pixl Maths Practice Paper 1a Nov 2013

1. Understanding the eBook Pixl Maths Practice Paper 1a Nov 2013
 - The Rise of Digital Reading Pixl Maths Practice Paper 1a Nov 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Pixl Maths Practice Paper 1a Nov 2013
 - 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 Practice Paper 1a Nov 2013
 - User-Friendly Interface
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 - Pixl Maths Practice Paper 1a Nov 2013 Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Pixl Maths Practice Paper 1a Nov 2013 Compatibility with Devices
 - Pixl Maths Practice Paper 1a Nov 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pixl Maths Practice Paper 1a Nov 2013
 - Highlighting and Note-Taking Pixl Maths Practice Paper 1a Nov 2013
 - Interactive Elements Pixl Maths Practice Paper 1a Nov 2013
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pixl Maths Practice Paper 1a Nov 2013
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 - Benefits of a Digital Library
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pixl Maths Practice Paper 1a Nov 2013
 - Setting Reading Goals Pixl Maths Practice Paper 1a Nov 2013
 - Carving Out Dedicated Reading Time
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 - Fact-Checking eBook Content of Pixl Maths Practice Paper 1a Nov 2013
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- Utilizing eBooks for Skill Development
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- Interactive and Gamified eBooks

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