

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: multiply numerators and denominators...

• $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

Dividing fractions: 'flip' the second fraction, then multiply...

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

Prime factorisation

Factorise a number as a product of its prime factors...

• $12 = 2 \times 2 \times 3$

Use the prime factors to change decimals or fractions. Multiply where possible.

• $0.45 = \frac{45}{100} = \frac{9}{20}$

Leave the most frequently used ones

• $\frac{1}{2}, \frac{1}{3}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \frac{6}{7}, \frac{7}{8}, \frac{8}{9}, \frac{9}{10}$

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 metre = 1000 millimetres
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

Arithmetic

Transfer the number, then add or 'borrow' digits to move up or down. Decimal places: use the decimal point.
• $102.1001 - 10.100 = 92.0001$

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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, 1.5)
Find the gradient:
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1.5 - 2}{2 - 0} = \frac{-0.5}{2} = -0.25$
...and the y -intercept.
From the graph, $y = mx + c$
Equation is $y = -0.25x + 2$

Pythagoras

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 known for the 3-4-5 triangle.
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 known for the 3-4-5 triangle.

Similar figures

Two figures are similar if their corresponding sides are in the same ratio.
• $\frac{a}{b} = \frac{c}{d}$
• $\frac{e}{f} = \frac{g}{h}$
• $\frac{i}{j} = \frac{k}{l}$
• $\frac{m}{n} = \frac{o}{p}$
• $\frac{q}{r} = \frac{s}{t}$
• $\frac{u}{v} = \frac{w}{x}$
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Pixl Club Maths Paper Gcse Edexcel:

Reviewing **Pixl Club Maths Paper Gcse Edexcel**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Pixl Club Maths Paper Gcse Edexcel**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

<https://crm.avenza.com/files/virtual-library/fetch.php/Recipe%20For%20Canned%20Sweet%20Potato%20Casserole.pdf>

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