

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.
• $120 = 2^3 \times 3 \times 5$

Indices and roots

Special indices for any value a
 $a^0 = 1$

$$a^m \times a^n = a^{m+n}$$

$$\frac{a^m}{a^n} = a^{m-n}$$

Ordering and fractions

Adding or subtracting fractions, use a common denominator.

$$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

$$\frac{1}{2} - \frac{1}{3} = \frac{3}{6} - \frac{2}{6} = \frac{1}{6}$$

Working fractions 'top' the second fraction, then multiply...

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

Prime factorisation

Factorise a number as a product of its prime factors.

$$12 = 2 \times 2 \times 3 = 2^2 \times 3$$

Use the most frequently used ones

2	3	5	7	11	13	17	19	23	29	31	37	41	43	47	53	59	61	67	71	73	79	83	89	97
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Algebra

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

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 1 kilograms
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 'multiply/divide' by moved up or down.
Decimal places: use the decimal point.
• 100, 1000, 10000, ...
• 100, 10, 1, 0.1, 0.01, ...

100, 10, 1, 0.1, 0.01, ...
1000, 100, 10, 1, 0.1, 0.01, ...

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Order fractions

Find the range of numbers that will round to a given value.
• $x = 5.55$ (2 decimal places)
 $5.55 \leq x < 5.56$
• $x = 5.55$ (1 significant figure)
 $5.5 \leq x < 5.6$

Note use of $\leq$ and $<$, and that the last significant figure is in 5.

Algebraic notation

$$a + b = c$$

$$a - b = c$$

$$a \times b = c$$

$$a \div b = c$$

$$a \times b = c$$

$$a \div b = c$$

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 a
 $a^2 \times a^3 = a^5$
 $a^2 \div a^3 = a^{-1}$
 $a^2 \times a^3 = a^5$

$$4(3x^2) - 7(2x - 5) = 12x^2 - 14x + 35$$

Geometric graphs



Graphs of lines

Equation of straight line $y = mx + c$ as in the graph, x is the x -intercept.
• Find the equation of the line that joins (0, 2) to (2, 1).
Find the gradient: $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$
Find the y -intercept: $c = 2$
Equation is $y = -\frac{1}{2}x + 2$

Find the x -intercept: $0 = -\frac{1}{2}x + 2$
Find the y -intercept: $2 = -\frac{1}{2}x + 2$
Equation is $y = -\frac{1}{2}x + 2$

Parallel lines, gradients and slopes

Parallel lines: gradients are equal.
• $y = 2x + 3$ and $y = 2x + 5$ both have gradient 2 so are parallel.

Working fractions

$$\frac{a}{b} \times \frac{c}{d} = \frac{ac}{bd}$$

$$\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{d}{c} = \frac{ad}{bc}$$

$$\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$$

$$\frac{a}{b} - \frac{c}{d} = \frac{ad - bc}{bd}$$

Reverse of expanding is factorising: putting an expression into brackets.

Factorisation

Take a square for factorising.
• Take $x^2 + 5x + 6 = 0$
Factorise brackets (taking care with any negative numbers).
 $(x + 2)(x + 3) = 0$
Then either $x + 2 = 0$ or $x + 3 = 0$
so that $x = -2$ or $x = -3$.

Difference of two squares

$$a^2 - b^2 = (a + b)(a - b)$$

Simultaneous equations

• Solve $\begin{cases} 2x + 3y = 11 \\ 3x + 2y = 14 \end{cases}$
Multiply to make x same in both.
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Pixl Maths Higher Paper November 2014

Lingsheng Yao



Pixl Maths Higher Paper November 2014:

Pixl Maths Higher Paper November 2014 Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Pixl Maths Higher Paper November 2014**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

https://crm.avenza.com/files/publication/index.jsp/realidades_3_workbook_answers_chapter_2.pdf

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