

Number

...or **NUMB**, for the correct order of operations, take care when using a calculator.

- Brackets
- Indices (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 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.
• $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

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)
 $0.005 \leq x \leq 0.0055$
• $x = 10$ (2 significant figures)
 $10 \leq x \leq 11$
Note use of $\leq$ and $<$, and that the last significant figure is in 5 .

Algebraic notation

$a^2 + a + 1$
 $2a + a + 1 = 3a + 1$
 $a^2 + a + 1 = a^2 + a + 1$
 $a^2 + a + 1 = a^2 + a + 1$
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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 identify a value for every value of x
• $2x + 1 = 5$ is true for $x = 2$
• You can identify a value for every value of x

Order of operations

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

Algebraic notation

• $(3x)^2 = 9x^2$
• $3x^2 = 3x^2$
• $3x^2 = 3x^2$
• $3x^2 = 3x^2$

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.
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$
• Find 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, 20, 25; 16, 63, 65; 17, 144, 145; 18, 80, 82; 19, 180, 181; 20, 99, 101; 21, 220, 221; 22, 165, 167; 23, 276, 277; 24, 100, 104; 25, 252, 253; 26, 675, 677; 27, 720, 721; 28, 952, 953; 29, 2024, 2025; 30, 440, 442; 31, 990, 991; 32, 1272, 1273; 33, 1001, 1003; 34, 336, 338; 35, 357, 359; 36, 1296, 1297; 37, 1369, 1371; 38, 1444, 1446; 39, 1521, 1523; 40, 1599, 1601; 41, 1680, 1681; 42, 1764, 1766; 43, 1849, 1851; 44, 1936, 1938; 45, 2025, 2027; 46, 2116, 2118; 47, 2209, 2211; 48, 2304, 2306; 49, 2401, 2403; 50, 2500, 2502; 51, 2601, 2603; 52, 2704, 2706; 53, 2809, 2811; 54, 2916, 2918; 55, 3025, 3027; 56, 3136, 3138; 57, 3249, 3251; 58, 3364, 3366; 59, 3481, 3483; 60, 3600, 3602; 61, 3721, 3723; 62, 3844, 3846; 63, 3969, 3971; 64, 4096, 4098; 65, 4225, 4227; 66, 4356, 4358; 67, 4489, 4491; 68, 4624, 4626; 69, 4761, 4763; 70, 4900, 4902; 71, 5041, 5043; 72, 5184, 5186; 73, 5329, 5331; 74, 5476, 5478; 75, 5625, 5627; 76, 5776, 5778; 77, 5929, 5931; 78, 6084, 6086; 79, 6241, 6243; 80, 6400, 6402; 81, 6561, 6563; 82, 6724, 6726; 83, 6891, 6893; 84, 7060, 7062; 85, 7231, 7233; 86, 7404, 7406; 87, 7579, 7581; 88, 7756, 7758; 89, 7936, 7938; 90, 8119, 8121; 91, 8304, 8306; 92, 8491, 8493; 93, 8680, 8682; 94, 8871, 8873; 95, 9064, 9066; 96, 9259, 9261; 97, 9456, 9458; 98, 9656, 9658; 99, 9859, 9861

Area and volume

Area of triangle = $\frac{1}{2} \times \text{base} \times \text{height}$
Volume of prism = $\text{area of cross-section} \times \text{length}$
Area of circle = πr^2
Volume of cylinder = $\pi r^2 \times \text{height}$
Area of sector = $\frac{\theta}{360} \times \pi r^2$
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Pixl Maths Papers 2014 Edexcel

Sebastian Brünink



Pixl Maths Papers 2014 Edexcel:

Whispering the Strategies of Language: An Mental Quest through **Pixl Maths Papers 2014 Edexcel**

In a digitally-driven world where monitors reign supreme and quick communication drowns out the subtleties of language, the profound secrets and psychological subtleties concealed within words often move unheard. Yet, situated within the pages of **Pixl Maths Papers 2014 Edexcel** a fascinating fictional value blinking with fresh feelings, lies an exceptional quest waiting to be undertaken. Penned by an experienced wordsmith, this charming opus attracts visitors on an introspective trip, gently unraveling the veiled truths and profound influence resonating within the very fabric of each and every word. Within the emotional depths of this moving review, we shall embark upon a genuine exploration of the book's key themes, dissect its captivating writing design, and fail to the effective resonance it evokes strong within the recesses of readers' hearts.

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