

### 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 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, then multiply...

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

### Problems involving

Fraction in numerator = 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, multiply where possible.

•  $0.45 \times \frac{100}{1} = 45$

Leave the most frequently used ones

10	20	30	40	50	60	70	80	90	100
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### Units

Look for the biggest square number factor of the number.  
•  $100 = 10 \times 10 = 10^2$

### 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

### Area and perimeter

Calculate the number, then use it 'backwards' to round up or down. Round (up) means use the decimal point.  
• 100.1, 100.5, 100.9  
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### Area and perimeter

1 kg = 1 000 g  
1 t = 1 000 kg  
1 m = 1 000 mm  
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### Standard graphs



### Graphs of functions

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:  $\frac{1-2}{2-0} = -\frac{1}{2}$   
...and its  $y$ -intercept.  
From the graph,  $y = -\frac{1}{2}x + 2$   
Equation is  $y = -\frac{1}{2}x + 2$

### Graphs of functions

Parallel lines: gradients are equal.  
•  $y = 2x + 3$  and  $y = 2x + 4$  both have gradient 2 so are parallel.

### Graphs of functions

$g(x) = x^2 + 1$  and  $f(x) = x^2$   
 $g(x) - f(x) = (x^2 + 1) - x^2 = 1$   
 $f(x) - g(x) = x^2 - (x^2 + 1) = -1$   
 $g(x) + f(x) = (x^2 + 1) + x^2 = 2x^2 + 1$   
 $f(x) + g(x) = x^2 + (x^2 + 1) = 2x^2 + 1$

### Graphs of functions

Reverse of expanding is factorising: putting an expression into brackets.  
**Expansion**  
Take a square for factorising.  
• Take  $x^2 + 5x + 6 = (x+2)(x+3)$   
Factorise brackets (taking care with any negative numbers).  
 $x^2 + 30x + 251 = (x+1)(x+251)$   
...then either  $x = -1$  or  $x = -251$  so that  $x+1 = 0$  or  $x+251 = 0$ .

### Expansion of two terms

$a^2 - b^2 = (a+b)(a-b)$   
•  $x^2 - 25 = (x+5)(x-5)$

### Expansion of three terms

Take  $(2x+3)(x+4) = 2x^2 + 8x + 3x + 12 = 2x^2 + 11x + 12$   
Multiply to match terms in  $y = ax^2 + bx + c$   
 $2x^2 + 11x + 12$   
 $(2x+3)(x+4)$

### Expansion of three terms

Add or subtract to match.  
 $2x^2 + 11x + 12$   
Factorise and write...  
 $2x^2 + 11x + 12 = (2x+3)(x+4)$

### Expansion of three terms

The subject of a formula is the letter on the left, the rules that 'isolate' the formula to change to subject.  
• Make  $x$  the subject of  $2x + 3y = 12$   
 $2x = 12 - 3y$   
Now, subtract  $3y$  from both sides.  
 $2x = 12 - 3y$   
...then divide both sides by 2.  
 $x = \frac{12 - 3y}{2}$

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### Right-angled triangles



### Pythagorean Theorem

Pythagorean Theorem: In a right-angled triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.  
 $a^2 + b^2 = c^2$

### Pythagorean Theorem

Special values of  $\sin$ ,  $\cos$ ,  $\tan$ . Learn for the day to find without a calculator.  

$\theta$	$\sin \theta$	$\cos \theta$	$\tan \theta$
0	0	1	0
30	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}}$
45	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1
60	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$
90	1	0	-

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90	1	0	-

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### Algebra

Triangular numbers  

n	1	2	3	4	5
1	1	3	6	10	15

Square numbers ( $n^2 = a \times a$ )  

n	1	2	3	4	5
1	1	4	9	16	25

Cube numbers ( $n^3 = a \times a \times a$ )  

n	1	2	3	4	5
1	1	8	27	64	125

nth term of an arithmetic (linear) sequence is  $a + d(n-1)$   
•  $a = 1, d = 1, n = 5, 10, 15, 20, \dots$   
•  $1 + 1(5-1) = 5$   
•  $1 + 1(10-1) = 10$   
•  $1 + 1(15-1) = 15$   
•  $1 + 1(20-1) = 20$

nth term of a quadratic (square) sequence is  $a + b(n-1) + c(n-1)(n-2)$   
•  $a = 1, b = 1, c = 1, n = 1, 2, 3, 4, 5, \dots$   
•  $1 + 1(1-1) + 1(1-1)(1-2) = 1$   
•  $1 + 1(2-1) + 1(2-1)(2-2) = 4$   
•  $1 + 1(3-1) + 1(3-1)(3-2) = 9$   
•  $1 + 1(4-1) + 1(4-1)(4-2) = 16$   
•  $1 + 1(5-1) + 1(5-1)(5-2) = 25$

nth term of a cubic (cube) sequence is  $a + b(n-1) + c(n-1)(n-2) + d(n-1)(n-2)(n-3)$   
•  $a = 1, b = 1, c = 1, d = 1, n = 1, 2, 3, 4, 5, \dots$   
•  $1 + 1(1-1) + 1(1-1)(1-2) + 1(1-1)(1-2)(1-3) = 1$   
•  $1 + 1(2-1) + 1(2-1)(2-2) + 1(2-1)(2-2)(2-3) = 8$   
•  $1 + 1(3-1) + 1(3-1)(3-2) + 1(3-1)(3-2)(3-3) = 27$   
•  $1 + 1(4-1) + 1(4-1)(4-2) + 1(4-1)(4-2)(4-3) = 64$   
•  $1 + 1(5-1) + 1(5-1)(5-2) + 1(5-1)(5-2)(5-3) = 125$

nth term of a quartic (fourth power) sequence is  $a + b(n-1) + c(n-1)(n-2) + d(n-1)(n-2)(n-3) + e(n-1)(n-2)(n-3)(n-4)$   
•  $a = 1, b = 1, c = 1, d = 1, e = 1, n = 1, 2, 3, 4, 5, \dots$   
•  $1 + 1(1-1) + 1(1-1)(1-2) + 1(1-1)(1-2)(1-3) + 1(1-1)(1-2)(1-3)(1-4) = 1$   
•  $1 + 1(2-1) + 1(2-1)(2-2) + 1(2-1)(2-2)(2-3) + 1(2-1)(2-2)(2-3)(2-4) = 16$   
•  $1 + 1(3-1) + 1(3-1)(3-2) + 1(3-1)(3-2)(3-3) + 1(3-1)(3-2)(3-3)(3-4) = 81$   
•  $1 + 1(4-1) + 1(4-1)(4-2) + 1(4-1)(4-2)(4-3) + 1(4-1)(4-2)(4-3)(4-4) = 256$   
•  $1 + 1(5-1) + 1(5-1)(5-2) + 1(5-1)(5-2)(5-3) + 1(5-1)(5-2)(5-3)(5-4) = 625$

nth term of a quintic (fifth power) sequence is  $a + b(n-1) + c(n-1)(n-2) + d(n-1)(n-2)(n-3) + e(n-1)(n-2)(n-3)(n-4) + f(n-1)(n-2)(n-3)(n-4)(n-5)$   
•  $a = 1, b = 1, c = 1, d = 1, e = 1, f = 1, n = 1, 2, 3, 4, 5, \dots$   
•  $1 + 1(1-1) + 1(1-1)(1-2) + 1(1-1)(1-2)(1-3) + 1(1-1)(1-2)(1-3)(1-4) + 1(1-1)(1-2)(1-3)(1-4)(1-5) = 1$   
•  $1 + 1(2-1) + 1(2-1)(2-2) + 1(2-1)(2-2)(2-3) + 1(2-1)(2-2)(2-3)(2-4) + 1(2-1)(2-2)(2-3)(2-4)(2-5) = 32$   
•  $1 + 1(3-1) + 1(3-1)(3-2) + 1(3-1)(3-2)(3-3) + 1(3-1)(3-2)(3-3)(3$

# Pixl Best Guess Maths Paper 24

**Michael Hoelscher**



## **Pixl Best Guess Maths Paper 24:**

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