

### 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

Working fractions 'top' the second fraction, then multiply.  
•  $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

### Proportion notation

Fraction in numerator = denominator  
•  $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

### Use the most frequently used ones

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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### Algebra

Look for the biggest square number factor of the coefficient.  
•  $100 = 10 \times 10$  or  $2 \times 2 \times 5 \times 5$

### 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 = 1000 millimetres  
1 centimetre = 10 millimetres

### Units

1 day = 24 hours  
1 hour = 60 minutes = 3600 seconds  
1 minute = 60 seconds

### Ordering

Transfer the number, then add a 'thousandths' to round up or down.  
Round 1234.567 to the nearest hundredth.  
1234.567 to 1234.57

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### Geometry & measures



### Area and volume

Equation of straight line  $y = mx + c$  or  $y = ax + b$  as in the graphics,  $x$  is the  $x$ -coordinate.  
Find the equation of the line that joins (1, 2) to (3, 4).  
Find the gradient.  
 $\frac{4 - 2}{3 - 1} = \frac{2}{2} = 1$   
and the  $y$ -intercept.  
From the line  $y = mx + c$ ,  $2 = 1 \times 1 + c$   
Equation is  $y = 1x + 1$

### Area and volume

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

### Ordering

$g(x) = x^2 + 3x + 2$   
 $h(x) = x^2 + 2x + 1$   
 $g(x) - h(x) = (x^2 + 3x + 2) - (x^2 + 2x + 1)$   
 $= x^2 + 3x + 2 - x^2 - 2x - 1$   
 $= x + 1$

### Ordering

Reverse of expanding is factorising: putting an expression into brackets.  
 $x^2 + 5x + 6 = (x + 2)(x + 3)$

### Ordering

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

### Ordering

Difference of two squares  
 $a^2 - b^2 = (a + b)(a - b)$   
•  $16 - 9 = (4 + 3)(4 - 3) = 7$

### Ordering

Substitution  
• Take  $2x + 3 = 11$   
 $2x = 11 - 3 = 8$   
 $x = 4$

### Ordering

Use the subject of a formula to find the value of  $x$ .  
•  $2x + 3 = 11$  then  $2x = 8$   
•  $x = 4$

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### Geometry & measures



### Area and volume

Pythagorean Theorem:  
Length of three sides.  
No angles.  
 $a^2 + b^2 = c^2$

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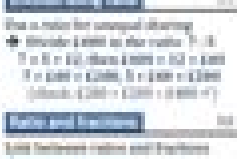
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**Didier Musso**



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