

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
 $a^0 = 1$

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

Ordering and fractions

Adding or subtracting fractions, use a common denominator...

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

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 factors

Factorise an integer as a product of its prime factors. (Usually, where possible)

$$60 = 2 \times 2 \times 3 \times 5$$

Leave 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.
• $100 = 10 \times 10$ 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 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, 0.001, ...

100, 10, 1, 0.1, 0.01, 0.001, ...
1000, 100, 10, 1, 0.1, 0.01, 0.001, ...

100, 10, 1, 0.1, 0.01, 0.001, ...
1000, 100, 10, 1, 0.1, 0.01, 0.001, ...

Order fractions

Find the range of numbers that will result in a given value.

• $x = 5$ (2 decimal places)
 $5.000 \leq x \leq 5.005$
• $x = 10$ (1 significant figure)
 $10 \leq x < 11$

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

Algebraic notation

$$a + b = c$$

$$a - b = c$$

$$a \times b = c$$

$$a \div b = c$$

$$a \pm b = c$$

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

Algebraic notation

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

Geometric graphs



Graphs

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, 1.5)
Find the gradient:
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1.5 - 2}{2 - 0} = -\frac{0.5}{2} = -\frac{1}{4}$
and the y -intercept, c
From the graph, $y = mx + c$
Equation is $y = -\frac{1}{4}x + 2$

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

Converting

$100 = 10^2$ or $10^2 = 100$
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100, 10, 1, 0.1, 0.01, 0.001, ...
1000, 100, 10, 1, 0.1, 0.01, 0.001, ...

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Algebraic notation

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Right-angled triangles



Pythagorean Theorem

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

Trigonometry



$\sin A = \frac{a}{c}$ $\cos A = \frac{b}{c}$ $\tan A = \frac{a}{b}$

Area and volume

Area of triangle = $\frac{1}{2} \times \text{base} \times \text{height}$
Volume of prism = $\text{length} \times \text{width} \times \text{height}$



Area of trapezium = $\frac{1}{2}(a + b) \times h$

Concentric circles

Area of circle = πr^2



Area of sector = $\frac{\theta}{360} \times \pi r^2$

Volume of cylinder = $\pi r^2 \times \text{height}$

Reflection

Reflection:
• Line of reflection
• Centre of rotation
• Angle of rotation
• Centre of enlargement
• Scale factor (2D) = 1 (the shape will get smaller)

Angle rules

Equal angles in parallel lines always are marked accordingly...



Angles in a straight line

Angles in a straight line total 180°

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Algebra

Triangular numbers

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

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

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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all sorts of an arithmetic (linear) sequence as $a + d$

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

Special values of a , b , c , d , e , f , g , h , i , j , k , l , m , n , o , p , q , r , s , t , u , v , w , x , y , z

Special values of a , b , c , d , e , f , g , h , i , j , k , l , m , n , o , p , q , r , s , t , u , v , w , x , y , z

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Algebraic notation

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

Order of operations

For any value a
 $a^m \times a^n = a^{m+n}$
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