

**Number** 101

...or **NUMB**. For the correct order of operations, use what you know about a calculator.

- Division
- Before (or After)
- Brackets and Multiplication
- Addition and Subtraction

**Types of number** 102

**Integer:** a 'whole' number  
Factors: the divisors of an integer  
• Factors of 12 are 1, 2, 3, 4, 6, 12  
Multiple: a 'times table' for an integer (with infinite multiples)  
• Multiples of 10 are 10, 20, 30, ...  
Prime number: an integer which has exactly two factors (1 and the number itself). Note it is not a prime number.

**Order of operations** 103

**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

**Area and Volume** 104

Write a number as a product of its prime factors, and follow the repeated factors.  
•  $120 = 2^3 \times 3^2 \times 5^1$

**Indices and Roots** 105, 107

Special indices for any value  $a$   
 $a^0 = 1$   
 $a^1 = a$   
 $a^2 = a \times a$   
 $a^3 = a \times a \times a$

**Ordering and Addition** 106

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.

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

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

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

**Working with Decimals** 107

Division is equivalent to a reciprocal.  
•  $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

The place values change directly or inversely, multiply where possible.  
•  $0.45 \div \frac{1}{10} = 4.5$

Keep the most frequently used ones

100	10	1	0.1	0.01
1000	100	10	1	0.1
10000	1000	100	10	1

**Algebra** 108

Look for the biggest square number factor of the constant.  
•  $x^2 + 12x + 36 = (x+6)^2$

**Standard Form** 109

Standard form numbers are of the form:  $a \times 10^n$  where  $1 \leq a < 10$  and  $n$  is an integer.

**Area and Volume** 111

1 square = 10000 square centimetres  
1 kilometre = 1000 metres  
1 metre = 100 centimetres  
1000 millimetres  
1 centimetre = 10 millimetres

1 kg = 1000 grams  
1 tonne = 1000 kilograms  
1 kilometre = 1000 metres

**Area and Volume** 112

Transfer the number that you've 'multiplied' by, to the other side of the equals sign.  
Simpler (smaller) use the decimal point.  
•  $100 \times 1000 = 100,000$   
•  $100 \times 10 = 1000$   
•  $100 \times 1 = 100$   
•  $100 \times 0.1 = 10$   
•  $100 \times 0.01 = 1$   
•  $100 \times 0.001 = 0.1$   
•  $100 \times 0.0001 = 0.01$

**Area and Volume** 113

Significant figures: use the first two non-zero digits.  
• Add 1000 to 100  
•  $1000 + 100 = 1100$   
•  $1000 + 100 = 1100$   
•  $1000 + 100 = 1100$

**Area and Volume** 114

Find the range of numbers that will round to a given value.  
•  $x = 5.55$  (2 decimal places)  
 $5.545 \leq x < 5.555$   
•  $x = 55$  (2 significant figures)  
 $54.5 \leq x < 55.5$

**Area and Volume** 115

Note you've  $\times 10^3$ , and that the last significant figure is 4 (not 3).  
**Area and Volume** 116

$\frac{2x + 3y}{3} = \frac{2x}{3} + \frac{3y}{3}$   
 $\frac{2x + 3y}{3} = \frac{2x}{3} + y$   
 $\frac{2x + 3y}{3} - \frac{2x}{3} = \frac{2x}{3} + y - \frac{2x}{3}$   
 $\frac{3y}{3} = y$

**Area and Volume** 117

An equation is true for some particular value of  $x$ .  
•  $2x + 3 = 7$  because  $2 \times 2 + 3 = 7$   
• You can substitute  $x$  for any value of  $x$ .  
•  $2x + 3 = 7$  because  $2 \times 2 + 3 = 7$   
•  $2x + 3 = 7$  because  $2 \times 2 + 3 = 7$

**Area and Volume** 118

For any value  $x$   
 $x^2 + x^2 = 2x^2$   
 $x^2 + x^2 = 2x^2$   
 $x^2 + x^2 = 2x^2$   
 $x^2 + x^2 = 2x^2$

$4(30^2) - 3(30) = 36000 - 90 = 35910$

**Geometry & Measures** 120



**Area and Volume** 121

Equation of straight line  $y = mx + c$  as to the gradient,  $m$ , is the  $y$  increase divided by the  $x$  increase.  
• Find the equation of the line that joins (0, 2) to (2, 1).  
Find the gradient.  
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = \frac{-1}{2} = -0.5$   
• Find the  $y$  intercept.  
Passes through (0, 2) so  $y = 2$   
Equation is  $y = -0.5x + 2$

**Area and Volume** 122

Parallel lines: gradients are equal.  
•  $y = 2x + 1$  and  $y = 2x + 3$  both have gradient 2 so are parallel.

**Area and Volume** 123

$3(x + 2) + 4y = 10$   
 $3x + 6 + 4y = 10$   
 $3x + 4y = 10 - 6$   
 $3x + 4y = 4$   
 $3x = 4 - 4y$   
 $x = \frac{4 - 4y}{3}$   
 $x = \frac{4}{3} - \frac{4y}{3}$   
 $x = \frac{4}{3} - \frac{4y}{3}$

**Area and Volume** 124

Area is equivalent to factoring.  
• Take  $x^2 + 3x + 2 = 0$   
Factorise brackets (taking care with any negative numbers).  
 $x^2 + 3x + 2 = (x + 2)(x + 1) = 0$   
• One either  $x + 2 = 0$  or  $x + 1 = 0$  or both  $x + 2 = 0$  or  $x + 1 = 0$

**Area and Volume** 125

$x^2 - 2^2 = (x + 2)(x - 2)$   
 $x^2 - 25 = (x + 5)(x - 5)$

**Area and Volume** 126

Take  $\frac{3x + 3y - 12}{3} = \frac{3x}{3} + \frac{3y}{3} - \frac{12}{3}$   
Multiply by each value in your  $\frac{1}{3}$   
 $\frac{3x + 3y - 12}{3} = x + y - 4$   
 $\frac{3x + 3y - 12}{3} = x + y - 4$

**Area and Volume** 127

Add or subtract to cancel.  
 $3x + 7y - 2x + 4 = x + 7y + 4$

**Area and Volume** 128

The subject of a formula is the letter on the left. The ratio that 'takes' the formula to change to subject.  
• Make  $x$  the subject of  $3x + 2y = 7$   
 $3x + 2y = 7$   
Now subtract by three both sides.  
 $3x + 2y - 3x = 7 - 3x$   
• You divide both sides by 2.  
 $\frac{3x + 2y - 3x}{2} = \frac{7 - 3x}{2}$   
 $\frac{2y}{2} = \frac{7 - 3x}{2}$   
 $y = \frac{7 - 3x}{2}$

**Area and Volume** 129



**Area and Volume** 130, 132

**Pythagoras Theorem:** Length of three sides. By angle,  $a^2 + b^2 = c^2$   
The longest side of any right angled triangle is the hypotenuse. Check that your answer is consistent with this.  
Special values of sin, cos and tan (or the other way round) without a calculator.

**Area and Volume** 131

$\theta$	$\sin \theta$	$\cos \theta$	$\tan \theta$
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	-

**Area and Volume** 132, 133, 134, 135

Area of triangle =  $\frac{1}{2} \times \text{base} \times \text{height}$  Area of trapezium =  $\frac{1}{2}(\text{top} + \text{bottom}) \times \text{height}$  Volume of cuboid =  $\text{length} \times \text{width} \times \text{height}$

**Area and Volume** 133, 134, 135, 136

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



**Area and Volume** 134, 135

Volume of cone =  $\frac{1}{3} \times \pi r^2 \times \text{height}$  Area of circle =  $\pi r^2$  Volume of cylinder =  $\pi r^2 \times \text{height}$



**Area and Volume** 135, 136

**Reflection:** Line of reflection, Transformed, Centre of rotation, Angle of rotation, Centre of enlargement, Scale factor (CF) = 1 the shape will get smaller.  
**Rotation:** Centre of rotation, Angle of rotation, Centre of enlargement, Scale factor (CF) = 1 the shape will get smaller.

**Area and Volume** 136, 137

Two angles in a straight line always add to make 180°. Angles in a straight line total 180°. Angles in a full turn total 360°. Opposite angles in a triangle total 180°. The sum of the interior angles of any polygon... Exterior angles always total 360°.



Alternate angles, Corresponding angles, ...

**Area and Volume** 137, 138

**Triangle numbers:** 1, 3, 6, 10, 15, 21, 28, 36, 45, 55, 66, 78, 91, 105, 120, 136, 153, 171, 190, 210, 231, 252, 273, 295, 318, 342, 367, 392, 417, 442, 468, 495, 522, 550, 579, 609, 639, 670, 702, 735, 769, 804, 840, 877, 915, 954, 994, 1035, 1077, 1120, 1164, 1209, 1255, 1302, 1350, 1400, 1451, 1503, 1556, 1610, 1665, 1721, 1778, 1836, 1896, 1957, 2019, 2082, 2146, 2211, 2277, 2344, 2412, 2481, 2551, 2622, 2694, 2767, 2841, 2916, 2992, 3069, 3147, 3226, 3306, 3387, 3469, 3552, 3636, 3721, 3807, 3894, 3982, 4071, 4161, 4252, 4344, 4437, 4531, 4626, 4722, 4819, 4917, 5016, 5116, 5217, 5319, 5422, 5526, 5631, 5737, 5844, 5952, 6061, 6171, 6282, 6394, 6507, 6621, 6736, 6852, 6969, 7087, 7206, 7326, 7447, 7569, 7692, 7816, 7941, 8067, 8194, 8322, 8451, 8581, 8712, 8844, 8977, 9111, 9246, 9382, 9519, 9657, 9796, 9936, 10077, 10219, 10362, 10506, 10651, 10797, 10944, 11092, 11241, 11391, 11542, 11694, 11847, 11991, 12136, 12282, 12429, 12577, 12726, 12876, 13027, 13179, 13332, 13486, 13641, 13797, 13954, 14112, 14271, 14431, 14592, 14754, 14917, 15081, 15246, 15412, 15579, 15747, 15916, 16086, 16257, 16429, 16602, 16776, 16951, 17127, 17304, 17482, 17661, 17841, 18022, 18204, 18387, 18571, 18756, 18942, 19129, 19317, 19506, 19696, 19887, 20079, 20272, 20466, 20661, 20857, 21054, 21252, 21451, 21651, 21852, 22054, 22257, 22461, 22666, 22872, 23079, 23287, 23496, 23706, 23917, 24129, 24342, 24556, 24771, 24987, 25204, 25422, 25641, 25861, 26082, 26304, 26527, 26751, 26976, 27202, 27429, 27657, 27886, 28116, 28347, 28579, 28812, 29046, 29281, 29517, 29754, 29992, 30231, 30471, 30712, 30954, 31197, 31441, 31686, 31932, 32179, 32427, 32676, 32926, 33177, 33429, 33682, 33936, 34191, 34447, 34704, 34962, 35221, 35481, 35742, 36004, 36267, 36531, 36796, 37062, 37329, 37597, 37866, 38136, 38407, 38679, 38952, 39226, 39501, 39777, 40054, 40332, 40611, 40891, 41172, 41454, 41737, 42021, 42306, 42592, 42879, 43167, 43456, 43746, 44037, 44329, 44622, 44916, 45211, 45507, 45804, 46102, 46401, 46701, 47002, 47304, 47607, 47911, 48216, 48522, 48829, 49137, 49446, 49756, 50067, 50379, 50692, 51006, 51321, 51637, 51954, 52272, 52591, 52911, 53232, 53554, 53877, 54201, 54526, 54852, 55179, 55507, 55836, 56166, 56497, 56829, 57162, 57496, 57831, 58167, 58504, 58842, 59181, 59521, 59862, 60204, 60547, 60891, 61236, 61582, 61929, 62277, 62626, 62976, 63327, 63679, 64032, 64386, 64741, 65097, 65454, 65812, 66171, 66531, 66892, 67254, 67617, 67981, 68346, 68712, 69079, 69447, 69816, 70186, 70557, 70929, 71302, 71676, 72051, 72427, 72804, 73182, 73561, 73941, 74322, 74704, 75087, 75471, 75856, 76242, 76629, 77017, 77406, 77796, 78187, 78579, 78972, 79366, 79761, 80157, 80554, 80952, 81351, 81751, 82152, 82554, 82957, 83361, 83766, 84172, 84579, 84987, 85396, 85806, 86217, 86629, 87042, 87456, 87871, 88287, 88704, 89122, 89541, 89961, 90382, 90804, 91227, 91651, 92076, 92502, 92929, 93357, 93786, 94216, 94647, 95079, 95512, 95946, 96381, 96817, 97254, 97692, 98131, 98571, 99012, 99454, 99897, 100341, 100786, 101232, 101679, 102127, 102576, 103026, 103477, 103929, 104382, 104836, 105291, 105747, 106204, 106662, 107121, 107581, 108042, 108504, 108967, 109431, 109896, 110362, 110829, 111297, 111766, 112236, 112707, 113179, 113652, 114126, 114601, 115077, 115554, 116032, 116511, 116991, 117472, 117954, 118437, 118921, 119406, 119892, 120379, 120867, 121356, 121846, 122337, 122829, 123322, 123816, 124311, 124807, 125304, 125802, 126301, 126801, 127302, 127804, 128307, 128811, 129316, 129822, 130329, 130837, 131346, 131856, 132367, 132879, 133392, 133906, 134421, 134937, 135454, 135972, 136491, 137011, 137532, 138054, 138577, 139101, 139626, 140152, 140679, 141207, 141736, 142266, 142797, 143329, 143862, 144396, 144931, 145467, 146004, 146542, 147081, 147621, 148162, 148704, 149247, 149791, 150336, 150882, 151429, 151977, 152526, 153076, 153627, 154179, 154732, 155286, 155841, 156397, 156954, 157512, 158071, 158631, 159192, 159754, 160317, 160881, 161446, 162012, 162579, 163147, 163716, 164286, 164857, 165429, 166002, 166576, 167151, 167727, 168304, 168882, 169461, 170041, 170622, 171204, 171787, 172371, 172956, 173542, 174129, 174717, 175306, 175896, 176487, 177079, 177672, 178266, 178861, 179457, 180054, 180652, 181251, 181851, 182452, 183054, 183657, 184261, 184866, 185472, 186079, 186687, 187296, 187906, 188517, 189129, 189742, 190356, 190971, 191587, 192204, 192822, 193441, 194061, 194682, 195304, 195927, 196551, 197176, 197802, 198429, 199057, 199686, 200316, 200947, 201579, 202212, 202846, 203481, 204117, 204754, 205392, 206031, 206671, 207312, 207954, 208597, 209241, 209886, 210532, 211179, 211827, 212476, 213126, 213777, 214429, 215082, 215736, 216391, 217047, 217704, 218362, 219021, 219681, 220342, 221004, 221667, 222331, 222996, 223662, 224329, 224997, 225666, 226336, 227007, 227679, 228352, 229026, 229701, 230377, 231054, 231732, 232411, 233091, 233772, 234454, 235137, 235821, 236506, 237192, 237879, 238567, 239256, 2

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