

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

Dividing fractions

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.
• $12 = 2 \times 2 \times 3$

Least common multiple

12	18	24	36	48	60
12	18	24	36	48	60

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

Time

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

Area

Calculate the number, then use a 'square digit' to round up or down. Round (up) or down (down) to the nearest point.
• 102.1021 to 102
• 102.1021 to 103
• 102.1021 to 102.1
• 102.1021 to 102.11

Area

Find the area of numbers that will round to a given value.
• $x = 5.55$ (2 decimal places)
 $5.55 \leq x < 5.56$
• $x = 5.55$ (2 significant figures)
 $5.5 \leq x < 5.6$

Area

Note use of $\leq$ and $<$, and that the last significant figure is in 5.
• $5.55 \leq x < 5.56$

Area

Area of a rectangle: $Area = length \times width$
• $Area = 5 \times 3 = 15$

Area

Area of a triangle: $Area = \frac{1}{2} \times base \times height$
• $Area = \frac{1}{2} \times 5 \times 3 = 7.5$

Area

Area of a circle: $Area = \pi r^2$
• $Area = \pi \times 3^2 = 9\pi$

Area

Area of a square: $Area = side^2$
• $Area = 3^2 = 9$

Area

Area of a parallelogram: $Area = base \times height$
• $Area = 5 \times 3 = 15$

Geometry & measures



Geometry & measures

Equation of straight line $y = mx + c$ or $y = mx + c$ 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: $c = 2$
Equation is $y = -\frac{1}{2}x + 2$

Geometry & measures

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.
• $a^2 + b^2 = c^2$

Geometry & measures

Similar figures: Two figures are similar if their corresponding sides are in the same ratio.
• If a triangle has sides 3, 4, 5 and another has sides 6, 8, 10, they are similar with a scale factor of 2.

Geometry & measures

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Geometry & measures

Area of a trapezium: $Area = \frac{1}{2} \times (a + b) \times h$
• $Area = \frac{1}{2} \times (5 + 3) \times 3 = 12$

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Algebra



Algebra

Triangle numbers: $1, 3, 6, 10, 15, 21, 28, 36, 45, 55, 66, 78, 91, 105, 120, 136, 153, 171, 190, 210, 231, 253, 276, 300, 325, 351, 378, 406, 435, 465, 496, 528, 561, 595, 630, 666, 703, 741, 780, 820, 861, 903, 946, 990, 1035, 1081, 1128, 1176, 1225, 1275, 1326, 1378, 1431, 1485, 1540, 1596, 1653, 1711, 1770, 1830, 1891, 1953, 2016, 2080, 2145, 2211, 2278, 2346, 2415, 2485, 2556, 2628, 2701, 2775, 2850, 2926, 3003, 3081, 3160, 3240, 3321, 3403, 3486, 3570, 3655, 3741, 3828, 3916, 4005, 4095, 4186, 4278, 4371, 4465, 4560, 4656, 4753, 4851, 4950, 5050, 5151, 5253, 5356, 5460, 5565, 5671, 5778, 5886, 5995, 6105, 6216, 6328, 6441, 6555, 6670, 6786, 6903, 7021, 7140, 7260, 7381, 7503, 7626, 7750, 7875, 8001, 8128, 8256, 8385, 8515, 8646, 8778, 8911, 9045, 9180, 9316, 9453, 9591, 9730, 9870, 10011, 10153, 10296, 10440, 10585, 10731, 10878, 11026, 11175, 11325, 11476, 11628, 11781, 11935, 12090, 12246, 12403, 12561, 12720, 12880, 13041, 13203, 13366, 13530, 13695, 13861, 14028, 14196, 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