

### 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 number  $a$   
 $a^0 = 1$   
 $a^{-1} = \frac{1}{a}$   
 $a^{\frac{1}{2}} = \sqrt{a}$

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

### Ordering with decimals

Ordering in ascending or descending order.  
•  $0.45 < 0.5 < 0.55$

### Ordering with fractions

Ordering in ascending or descending order.  
•  $\frac{1}{2} < \frac{2}{3} < \frac{3}{4}$

### Ordering with percentages

Ordering in ascending or descending order.  
•  $45\% < 50\% < 55\%$

### Ordering with ratios

Ordering in ascending or descending order.  
•  $1:2 < 2:3 < 3:4$

### Ordering with fractions

Ordering in ascending or descending order.  
•  $\frac{1}{2} < \frac{2}{3} < \frac{3}{4}$

### Algebra

Look for the biggest square number factor of the coefficient.  
•  $100 = 10 \times 10 \times 1 \times 1$

### Standard form

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

### Standard form

1 square = 10000 kilograms  
1 kilogram = 1000 grams  
1 kilometre = 1000 metres  
1 metre = 100 centimetres  
1 centimetre = 10 millimetres  
1 day = 24 hours  
1 hour = 60 minutes  
1 minute = 60 seconds

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### Geometry & measures

Equation of straight line  $y = mx + c$  as in the graph,  $c$  is the  $y$ -intercept.  
Find the equation of the line that joins (0, 2) to (2, 1).  
Find its gradient.  
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$   
and its  $y$ -intercept.  
From the graph,  $c = 2$   
Equation is  $y = -\frac{1}{2}x + 2$

### Geometry & measures

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

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### Algebra

Triangular 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, 14365, 14535, 14706, 14878, 15051, 15225, 15400, 15576, 15753, 15931, 16110, 16290, 16471, 16653, 16836, 17020, 17205, 17391, 17578, 17766, 17955, 18145, 18336, 18528, 18721, 18915, 19110, 19306, 19503, 19701, 19900, 20100, 20301, 20503, 20706, 20910, 21115, 21321, 21528, 21736, 21945, 22155, 22366, 22578, 22791, 23005, 23220, 23436, 23653, 23871, 24090, 24310, 24531, 24753, 24976, 25200, 25425, 25651, 25878, 26106, 26335, 26565, 26796, 27028, 27261, 27495, 27730, 27966, 28203, 28441, 28680, 28920, 29161, 29403, 29646, 29890, 30135, 30381, 30628, 30876, 31125, 31375, 31626, 31878, 32131, 32385, 32640, 32896, 33153, 33411, 33670, 33930, 34191, 34453, 34716, 34980, 35245, 35511, 35778, 36046, 36315, 36585, 36856, 37128, 37401, 37675, 37950, 38226, 38503, 38781, 39060, 39340, 39621, 39903, 40186, 40470, 40755, 41041, 41328, 41616, 41905, 42195, 42486, 42778, 43071, 43365, 43660, 43956, 44253, 44551, 44850, 45150, 45451, 45753, 46056, 46360, 46665, 46971, 47278, 47586, 47895, 48205, 48516, 48828, 49141, 49455, 49770, 50086, 50403, 50721, 51040, 51360, 51681, 52003, 52326, 52650, 52975, 53301, 53628, 53956, 54285, 54615, 54946, 55278, 55611, 55945, 56280, 56616, 56953, 57291, 57630, 57970, 58311, 58653, 59000, 59348, 59697, 60048, 60399, 60751, 61104, 61458, 61813, 62169, 62526, 62884, 63243, 63603, 63964, 64326, 64689, 65053, 65418, 65784, 66151, 66519, 66888, 67258, 67629, 68001, 68374, 68748, 69123, 69499, 69876, 70254, 70633, 71013, 71394, 71776, 72159, 72543, 72928, 73314, 73701, 74089, 74478, 74868, 75259, 75651, 76044, 76438, 76833, 77229, 77626, 78024, 78423, 78823, 79224, 79626, 80029, 80433, 80838, 81244, 81651, 82059, 82468, 82878, 83289, 83691, 84094, 84498, 84903, 85309, 85716$

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 $\text{Cu}^{2+}$  ions have greater tendency to

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