

### 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  $a$   
 $a^0 = 1$

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

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

### 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: 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 factorisation

Factorise a number as a product of its prime factors.

$$12 = 2 \times 2 \times 3 = 2^2 \times 3$$

The prime factors change directly as the number changes, where possible.

$$12 \div 2 = 6 \div 2 = 3$$

Learn 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 |
|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

### 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.

### Scientific notation

1 atom = 0.000 000 000 000 000 000 000 kg  
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, ...

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### Graphical graphs



### Graphical graphs

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 the gradient:  $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$   
...and the  $y$ -intercept,  $c = 2$   
Hence the equation is  $y = -\frac{1}{2}x + 2$   
Equation is  $y = -\frac{1}{2}x + 2$

### Graphical graphs

Parallel lines: gradients are equal.  
•  $y = 2x + 3$  and  $y = 2x + 5$  both have gradient 2 so are parallel.

### Graphical graphs

$2y = 4x + 6 \Rightarrow y = 2x + 3$   
•  $3x + 2y = 6 \Rightarrow 2y = 6 - 3x \Rightarrow y = 3 - \frac{3}{2}x$   
•  $4x + 2y = 4 \Rightarrow 2y = 4 - 4x \Rightarrow y = 2 - 2x$   
•  $5x + 2y = 10 \Rightarrow 2y = 10 - 5x \Rightarrow y = 5 - \frac{5}{2}x$   
•  $6x + 2y = 12 \Rightarrow 2y = 12 - 6x \Rightarrow y = 6 - 3x$   
•  $7x + 2y = 14 \Rightarrow 2y = 14 - 7x \Rightarrow y = 7 - \frac{7}{2}x$   
•  $8x + 2y = 16 \Rightarrow 2y = 16 - 8x \Rightarrow y = 8 - 4x$   
•  $9x + 2y = 18 \Rightarrow 2y = 18 - 9x \Rightarrow y = 9 - \frac{9}{2}x$   
•  $10x + 2y = 20 \Rightarrow 2y = 20 - 10x \Rightarrow y = 10 - 5x$   
•  $11x + 2y = 22 \Rightarrow 2y = 22 - 11x \Rightarrow y = 11 - \frac{11}{2}x$   
•  $12x + 2y = 24 \Rightarrow 2y = 24 - 12x \Rightarrow y = 12 - 6x$   
•  $13x + 2y = 26 \Rightarrow 2y = 26 - 13x \Rightarrow y = 13 - \frac{13}{2}x$   
•  $14x + 2y = 28 \Rightarrow 2y = 28 - 14x \Rightarrow y = 14 - 7x$   
•  $15x + 2y = 30 \Rightarrow 2y = 30 - 15x \Rightarrow y = 15 - \frac{15}{2}x$   
•  $16x + 2y = 32 \Rightarrow 2y = 32 - 16x \Rightarrow y = 16 - 8x$   
•  $17x + 2y = 34 \Rightarrow 2y = 34 - 17x \Rightarrow y = 17 - \frac{17}{2}x$   
•  $18x + 2y = 36 \Rightarrow 2y = 36 - 18x \Rightarrow y = 18 - 9x$   
•  $19x + 2y = 38 \Rightarrow 2y = 38 - 19x \Rightarrow y = 19 - \frac{19}{2}x$   
•  $20x + 2y = 40 \Rightarrow 2y = 40 - 20x \Rightarrow y = 20 - 10x$   
•  $21x + 2y = 42 \Rightarrow 2y = 42 - 21x \Rightarrow y = 21 - \frac{21}{2}x$   
•  $22x + 2y = 44 \Rightarrow 2y = 44 - 22x \Rightarrow y = 22 - 11x$   
•  $23x + 2y = 46 \Rightarrow 2y = 46 - 23x \Rightarrow y = 23 - \frac{23}{2}x$   
•  $24x + 2y = 48 \Rightarrow 2y = 48 - 24x \Rightarrow y = 24 - 12x$   
•  $25x + 2y = 50 \Rightarrow 2y = 50 - 25x \Rightarrow y = 25 - \frac{25}{2}x$   
•  $26x + 2y = 52 \Rightarrow 2y = 52 - 26x \Rightarrow y = 26 - 13x$   
•  $27x + 2y = 54 \Rightarrow 2y = 54 - 27x \Rightarrow y = 27 - \frac{27}{2}x$   
•  $28x + 2y = 56 \Rightarrow 2y = 56 - 28x \Rightarrow y = 28 - 14x$   
•  $29x + 2y = 58 \Rightarrow 2y = 58 - 29x \Rightarrow y = 29 - \frac{29}{2}x$   
•  $30x + 2y = 60 \Rightarrow 2y = 60 - 30x \Rightarrow y = 30 - 15x$   
•  $31x + 2y = 62 \Rightarrow 2y = 62 - 31x \Rightarrow y = 31 - \frac{31}{2}x$   
•  $32x + 2y = 64 \Rightarrow 2y = 64 - 32x \Rightarrow y = 32 - 16x$   
•  $33x + 2y = 66 \Rightarrow 2y = 66 - 33x \Rightarrow y = 33 - \frac{33}{2}x$   
•  $34x + 2y = 68 \Rightarrow 2y = 68 - 34x \Rightarrow y = 34 - 17x$   
•  $35x + 2y = 70 \Rightarrow 2y = 70 - 35x \Rightarrow y = 35 - \frac{35}{2}x$   
•  $36x + 2y = 72 \Rightarrow 2y = 72 - 36x \Rightarrow y = 36 - 18x$   
•  $37x + 2y = 74 \Rightarrow 2y = 74 - 37x \Rightarrow y = 37 - \frac{37}{2}x$   
•  $38x + 2y = 76 \Rightarrow 2y = 76 - 38x \Rightarrow y = 38 - 19x$   
•  $39x + 2y = 78 \Rightarrow 2y = 78 - 39x \Rightarrow y = 39 - \frac{39}{2}x$   
•  $40x + 2y = 80 \Rightarrow 2y = 80 - 40x \Rightarrow y = 40 - 20x$   
•  $41x + 2y = 82 \Rightarrow 2y = 82 - 41x \Rightarrow y = 41 - \frac{41}{2}x$   
•  $42x + 2y = 84 \Rightarrow 2y = 84 - 42x \Rightarrow y = 42 - 21x$   
•  $43x + 2y = 86 \Rightarrow 2y = 86 - 43x \Rightarrow y = 43 - \frac{43}{2}x$   
•  $44x + 2y = 88 \Rightarrow 2y = 88 - 44x \Rightarrow y = 44 - 22x$   
•  $45x + 2y = 90 \Rightarrow 2y = 90 - 45x \Rightarrow y = 45 - \frac{45}{2}x$   
•  $46x + 2y = 92 \Rightarrow 2y = 92 - 46x \Rightarrow y = 46 - 23x$   
•  $47x + 2y = 94 \Rightarrow 2y = 94 - 47x \Rightarrow y = 47 - \frac{47}{2}x$   
•  $48x + 2y = 96 \Rightarrow 2y = 96 - 48x \Rightarrow y = 48 - 24x$   
•  $49x + 2y = 98 \Rightarrow 2y = 98 - 49x \Rightarrow y = 49 - \frac{49}{2}x$   
•  $50x + 2y = 100 \Rightarrow 2y = 100 - 50x \Rightarrow y = 50 - 25x$   
•  $51x + 2y = 102 \Rightarrow 2y = 102 - 51x \Rightarrow y = 51 - \frac{51}{2}x$   
•  $52x + 2y = 104 \Rightarrow 2y = 104 - 52x \Rightarrow y = 52 - 26x$   
•  $53x + 2y = 106 \Rightarrow 2y = 106 - 53x \Rightarrow y = 53 - \frac{53}{2}x$   
•  $54x + 2y = 108 \Rightarrow 2y = 108 - 54x \Rightarrow y = 54 - 27x$   
•  $55x + 2y = 110 \Rightarrow 2y = 110 - 55x \Rightarrow y = 55 - \frac{55}{2}x$   
•  $56x + 2y = 112 \Rightarrow 2y = 112 - 56x \Rightarrow y = 56 - 28x$   
•  $57x + 2y = 114 \Rightarrow 2y = 114 - 57x \Rightarrow y = 57 - \frac{57}{2}x$   
•  $58x + 2y = 116 \Rightarrow 2y = 116 - 58x \Rightarrow y = 58 - 29x$   
•  $59x + 2y = 118 \Rightarrow 2y = 118 - 59x \Rightarrow y = 59 - \frac{59}{2}x$   
•  $60x + 2y = 120 \Rightarrow 2y = 120 - 60x \Rightarrow y = 60 - 30x$   
•  $61x + 2y = 122 \Rightarrow 2y = 122 - 61x \Rightarrow y = 61 - \frac{61}{2}x$   
•  $62x + 2y = 124 \Rightarrow 2y = 124 - 62x \Rightarrow y = 62 - 31x$   
•  $63x + 2y = 126 \Rightarrow 2y = 126 - 63x \Rightarrow y = 63 - \frac{63}{2}x$   
•  $64x + 2y = 128 \Rightarrow 2y = 128 - 64x \Rightarrow y = 64 - 32x$   
•  $65x + 2y = 130 \Rightarrow 2y = 130 - 65x \Rightarrow y = 65 - \frac{65}{2}x$   
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•  $67x + 2y = 134 \Rightarrow 2y = 134 - 67x \Rightarrow y = 67 - \frac{67}{2}x$   
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•  $69x + 2y = 138 \Rightarrow 2y = 138 - 69x \Rightarrow y = 69 - \frac{69}{2}x$   
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•  $72x + 2y = 144 \Rightarrow 2y = 144 - 72x \Rightarrow y = 72 - 36x$   
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•  $74x + 2y = 148 \Rightarrow 2y = 148 - 74x \Rightarrow y = 74 - 37x$   
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•  $82x + 2y = 164 \Rightarrow 2y = 164 - 82x \Rightarrow y = 82 - 41x$   
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•  $145x + 2y = 290 \Rightarrow 2y = 290 - 145x \Rightarrow y = 145 - \frac{145}{2}x$   
•  $146x + 2y = 292 \Rightarrow 2y = 292 - 146x \Rightarrow y = 146 - 73x$   
•  $147x + 2y = 294 \Rightarrow 2y = 2$

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