



- Area of triangle**
Area of triangle = $\frac{1}{2} \times b \times h$
 $= \frac{1}{2} \times 4 \times 3$
 $= 6 \text{ cm}^2$
- Area of parallelogram**
Area of parallelogram = $b \times h$
 $= 4 \times 3$
 $= 12 \text{ cm}^2$
- Area of trapezium**
Area of trapezium = $\frac{(a+b) \times h}{2}$
 $= \frac{(2+3) \times 4}{2}$
 $= 10 \text{ cm}^2$
- Area of circle**
Area of circle = πr^2
 $= \pi \times 4^2$
 $= 16\pi \text{ cm}^2$
- Circumference of circle**
Area of circle = $2\pi r$
 $= 2\pi \times 4$
 $= 8\pi \text{ cm}$
- Volume of cuboid**
Volume = $l \times w \times h$
 $= 3 \times 2 \times 2$
 $= 12 \text{ cm}^3$
- Surface area of cuboid**
Front = $3 \times 2 = 6$
Back = $3 \times 2 = 6$
Top = $3 \times 2 = 6$
Bottom = $3 \times 2 = 6$
Side = $3 \times 2 = 6$
Side = $3 \times 2 = 6$
Total Surface Area = $6 \times 6 = 36 \text{ cm}^2$

Decimal	Percentage	Fraction
0	0%	0
0.1	10%	$\frac{1}{10}$
0.2	20%	$\frac{1}{5}$
0.25	25%	$\frac{1}{4}$
0.3	30%	$\frac{3}{10}$
0.4	40%	$\frac{2}{5}$
0.5	50%	$\frac{1}{2}$
0.6	60%	$\frac{3}{5}$
0.75	75%	$\frac{3}{4}$
1	100%	1

Percentages

- To increase £12 by 5%
 $= 1.05 \times £12$ (100% + 5% = 105%)
OR
 $= £12 + 5\% \text{ of } £12$
To decrease £50 by 15%
 $= 0.85 \times £50$ (100% - 15% = 85%)
OR
 $= £50 - 15\% \text{ of } £50$

Compound Interest

Invest £250 at 4% for 3 years

Amount = 250×1.04^3

Fractions

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

e.g. $\frac{5}{6} \times \frac{2}{3} = \frac{5 \times 2}{6 \times 3} = \frac{10}{18} = \frac{5}{9}$

e.g. $\frac{5}{6} \div \frac{2}{3} = \frac{5}{6} \times \frac{3}{2} = \frac{5 \times 3}{6 \times 2} = \frac{15}{12} = 1\frac{1}{4}$

Angles in Polygons

Sum of interior angles = $180^\circ \times (n-2)$

Sum of exterior angles = 360°



Metric Measures

- 1 km = 1000 m
- 1 m = 100 cm or 1000 mm
- 1 cm = 10 mm
- 1 litre = 1000 ml or 1000 cm³
- 1 tonne = 1000 kg
- 1 kg = 1000 g

Rules of Indices

- $2^3 \times 2^4 = 2^{3+4} = 2^7$
- $7^4 \div 7^2 = 7^{4-2} = 7^2$
- $(2^3)^2 = 2^{3 \times 2} = 2^6$
- 2^{-1} = the reciprocal of 2 (i.e. $\frac{1}{2}$)

- Multiples of 12 are: 12, 24, 36, 48, ...
- Factors of 12 are: 1, 2, 3, 4, 6, 12
- Prime numbers are: 2, 3, 5, 7, 11, 13, ...
- Square numbers are: 1, 4, 9, 16, 25, ...
- Triangle numbers are: 1, 3, 6, 10, ...
- Cube numbers are: 1, 8, 27, 64, ...

Calculate fraction of quantity

To find $\frac{2}{3}$ of a quantity $\Rightarrow 2 \times 4 = 8$

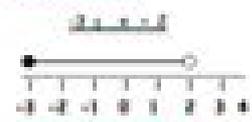
e.g. $\frac{2}{3}$ of £30 = $2 \times 10 = £20$

Equations

- Multiply out brackets first
- If there are letters on both sides get rid of the smaller first
- Do the same to both sides

e.g. To solve $5(x-3) = 3x+7$ (expand brackets)
 $5x-15 = 3x+7$ (x from both sides)
 $2x-15 = 7$ (2x to each side)
 $2x = 22$ (+15 to both sides)
 $x = 11$

Inequalities



Standard Form

$2.34 \times 10^4 = 23,400$
 $1.7 \times 10^{-3} = 0.0017$

- Brackets
- Other things $\sqrt{\quad}$
- Divide }
Multiply }
Add }
Subtract }

Power of 2	Calculation	Value
2 ⁰	2 ⁰	1
2 ¹	2 ¹	2
2 ²	2 ²	4
2 ³	2 ³	8
2 ⁴	2 ⁴	16
2 ⁵	2 ⁵	32

Ratio

e.g. Share £240 between A and B in ratio of 3:5

A : B
3 : 5 = 8 shares
One share = $\frac{£240}{8} = £30$
A = 3 shares = $3 \times £30 = £90$
B = 5 shares = $5 \times £30 = £150$

Simplifying expressions

$3x + 4y - 7 = 2y + 3x + 6y - 7$
 $5p^2 - 2p + p^2 = 6p^2 - 2p$

Expanding brackets

Multiply everything inside the bracket by what is outside. Then collect like terms together.

e.g. $3(x+2) + 2(x-5)$
 $= 3x + 6 + 2x - 10$
 $= 5x - 4$

Watch for the negative sign in front of the bracket. It changes the sign inside the bracket.

e.g. $3(x-2) - 2(x+5)$
 $= 3x - 6 - 2x - 10$
 $= x - 16$

Factorise

$3x + 6 = 3(x+2)$
 $6x^2 - 8x = 2x(3-2)$

Expanding Double brackets

$(x+3)(x+4) = x^2 + 7x + 12$

Method:



Sequences

If the 1st difference is constant, it is linear

e.g. 3 7 11 15 19 23 ...
+4 +4 +4 +4 +4

The term to term rule is +4

nth term = $4n - 1$
The nth term can be used to find the term in any position.
e.g. 10th term means n=10
10th term = $4 \times 10 - 1 = 39$

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