



Area of triangle
 $\text{Area of triangle} = \frac{1}{2} \times b \times h$
 $= \frac{1}{2} \times 8 \times 3$
 $= 12\text{cm}^2$

Area of parallelogram
 $\text{Area of parallelogram} = b \times h$
 $= 8 \times 3$
 $= 24\text{cm}^2$

Area of trapezium
 $\text{Area of trapezium} = \frac{(a+b) \times h}{2}$
 $= \frac{(8+12) \times 3}{2}$
 $= 30\text{cm}^2$

Area of circle
 $\text{Area of circle} = \pi \times r^2$
 $= \pi \times 4^2$
 $= \pi \times 16$
 $= 50.27\text{cm}^2$

Circumference of circle
 $\text{Area of circle} = \pi \times d$
 $= \pi \times 8$
 $= 25.13\text{cm}$

Volume of cuboid
 $\text{Volume} = l \times w \times h$
 $= 5 \times 3 \times 2$
 $= 30\text{cm}^3$

Surface area of cuboid

Front	$= 5 \times 3 = 15$
Back	$= 5 \times 3 = 15$
Top	$= 5 \times 2 = 10$
Bottom	$= 5 \times 2 = 10$
Side	$= 3 \times 2 = 6$
Side	$= 3 \times 2 = 6$

Total Surface Area = 74cm^2

Decimal	Per centage	Per cent
0	0%	0
0.1	10%	$\frac{1}{10}$
0.2	20%	$\frac{1}{5}$
0.25	25%	$\frac{1}{4}$
0.3	30%	$\frac{3}{10}$
0.3333	33.33%	$\frac{1}{3}$
0.4	40%	$\frac{2}{5}$
0.5	50%	$\frac{1}{2}$
0.6666	66.67%	$\frac{2}{3}$
0.75	75%	$\frac{3}{4}$
1	100%	1

Percentages

- To increase £12 by 5%
 $= 1.05 \times £12$ (100% + 5% = 105%)
 OR
 $= £12 + 5\% \text{ of } £12$
 $= 0.05 \times £120$ (100% + 5% = 105%)
 OR
 $= £12 \times 1.05$
- 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

Example 1:

$\frac{1}{2} \times \frac{2}{3} = \frac{1 \times 2}{2 \times 3} = \frac{2}{6} = \frac{1}{3}$	$\frac{3}{4} \times \frac{2}{5} = \frac{3 \times 2}{4 \times 5} = \frac{6}{20} = \frac{3}{10}$
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Example 2:

$5 \times \frac{1}{2} = \frac{5 \times 1}{2} = \frac{5}{2} = 2\frac{1}{2}$	$\frac{3}{4} \div \frac{2}{5} = \frac{3}{4} \times \frac{5}{2} = \frac{15}{8} = 1\frac{7}{8}$
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Example 3:

$5 \div \frac{1}{2} = \frac{5}{1} \times \frac{2}{1} = \frac{10}{1} = 10$	$\frac{3}{4} \div \frac{2}{5} = \frac{3}{4} \times \frac{5}{2} = \frac{15}{8} = 1\frac{7}{8}$
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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

- $2^3 \times 2^3 = 2^{(3+3)} = 2^6$
- $7^4 \div 7^2 = 7^{(4-2)} = 7^2$
- $(2^3)^2 = 2^{(3 \times 2)} = 2^6$
- 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 $\frac{2}{5}$ of a quantity $\Rightarrow 2 \times 5 = 4$

e.g. $\frac{2}{5}$ of £20 = $20 \div 5 \times 2 = £8$

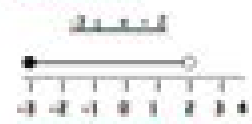
Equations

- 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)
 $2x-15 = 7$ (x from both sides)
 $2x = 22$ (+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 $\times \div$
- 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. Divide £240 between A and B in ratio of 3:5

A = 3
 B = 5 = 8 shares

One share = $£240 \div 8 = £30$
 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.

$3(x+2) + 4(x-5)$
 $= 3x + 6 + 4x - 20$
 $= 7x - 14$

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

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

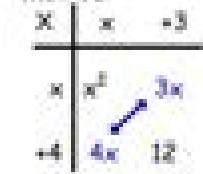
Factorise

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

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, ...
 $+4 \quad +4 \quad +4 \quad +4 \quad +4$

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 $n=10$
 10^{th} term = $4 \times 10 - 1 = 39$

Maths Revision Guide

Paul Hollin



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