



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	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%	$\frac{3}{10}$
0.3333	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%)
 $= £12 + 5\% \text{ of } £12$
 $= £12 + 60\text{p}$
 $= £12.60$
- To decrease £60 by 15%
 $= 0.85 \times £60$ (100% - 15% = 85%)
 $= £51$

Compound Interest
 Invest £250 at 4% for 3 years

Amount = 250×1.04^3

Fractions

e.g.

$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$	$\frac{2}{3} - \frac{1}{4} = \frac{8}{12} - \frac{3}{12} = \frac{5}{12}$
$\frac{3}{4} \times \frac{2}{5} = \frac{6}{20} = \frac{3}{10}$	$\frac{1}{2} \div \frac{3}{4} = \frac{1}{2} \times \frac{4}{3} = \frac{2}{3}$

e.g.

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

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

- $2^3 \times 2^5 = 2^{(3+5)} = 2^8$
- $7^6 \div 7^2 = 7^{(6-2)} = 7^4$
- $(2^3)^2 = 2^{(3 \times 2)} = 2^6$
- 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 $\Rightarrow 2 \times 4 = 8$

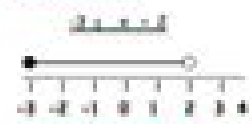
e.g. $\frac{2}{5}$ of £20 = $20 \div 5 \times 2 = £8$

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)
 $2x-15 = 7$ (add 15 to both sides)
 $2x = 22$ (÷2 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

Order of Calculation

	+	-	×	÷
1 st				
2 nd				
3 rd				
4 th				
5 th				
6 th				
7 th				
8 th				
9 th				

Ratio

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

A = 3
 B = 5 = 2 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.

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

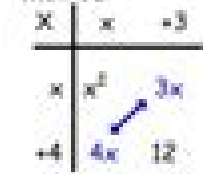
Factorise

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

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

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