



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
 $\text{Front} = 5 \times 3 = 15$
 $\text{Back} = 5 \times 3 = 15$
 $\text{Top} = 5 \times 2 = 10$
 $\text{Bottom} = 5 \times 2 = 10$
 $\text{Side} = 3 \times 2 = 6$
 $\text{Side} = 3 \times 2 = 6$
Total Surface Area = 72cm²

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%)
 OR
 $= £12 + 5\% \text{ of } £12$
 $= 0.05 \times £120$ (100% + 5% = 105%)
 OR
 $= £120 + 15\% \text{ of } £120$

Compound Interest
 Invest £250 at 4% for 3 years

Amount = 250×1.04^3

Fractions

e.g. $\frac{1}{2} \times \frac{3}{4} = \frac{1 \times 3}{2 \times 4} = \frac{3}{8}$

e.g. $5 \times \frac{3}{4} = \frac{5 \times 3}{4} = \frac{15}{4} = 3 \frac{3}{4}$

e.g. $5 \div \frac{3}{4} = \frac{5}{1} \times \frac{4}{3} = \frac{20}{3} = 6 \frac{2}{3}$

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 cm ³
1 tonne	= 1000 kg
1 kg	= 1000 g

Rules of Indices

$2^3 \times 2^3 = 2^{(3+3)} = 2^6$
 $7^3 \times 7^2 = 7^{(3+2)} = 7^5$
 $(2^3)^2 = 2^{(3 \times 2)} = 2^6$
 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 $\frac{3}{5}$ of a quantity $\Rightarrow 5 \times 4$
 e.g. $\frac{3}{5}$ of £20 = $20 \div 5 \times 3 = £12$

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

$-3 < 2 < 4$

$-3 < -2 < -1 < 0 < 1 < 2 < 3 < 4$

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

	+	-	x	÷
2+4	6			
2-4		-2		
2x4			8	
2÷4				0.5
2+2x4			10	
2x2+2x4			10	
2x(2+2x4)			18	
2x(2+2x2x4)			32	

Ratio

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

A = 3
 B = 5
 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.

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

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

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:

x	x	+3
x	x ²	3x
+4	4x	12

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 - 3
 The nth term can be used to find the term in any position

e.g. 10th term means n=10
 $10^{\text{th}} \text{ term} = 4 \times 10 - 3 = 39$

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