Circle diagram (labels): circumference, radius, diameter, MAJOR (SECTOR), quadrant, chord, segment, tangent

Decimal / Percentage / Fraction table

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%	$\frac{3}{10}$
0.333	33.3%	$\frac{1}{3}$
0.5	50%	$\frac{1}{2}$
0.6	60%	$\frac{3}{5}$
0.666	66.6%	$\frac{2}{3}$
0.75	75%	$\frac{3}{4}$
1	100%	1

Area / Volume formulas

- **Area of triangle**
  Area of triangle $= \frac{b \times h}{2}$

- **Area of parallelogram**
  Area of parallelogram $= b \times h$

- **Area of trapezium**
  Area of trapezium $= \frac{(a+b)}{2} \times h$

- **Area of circle**
  Area of circle $= \pi \times r^2$

- **Circumference of circle**
  $= \pi \times d$

- **Volume of cuboid**
  Volume $= l \times w \times h$

- **Surface area of cuboid**
  Total Surface Area $=$ ...cm²

Angles in Polygons

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

Sum of exterior angles $= 360°$

(diagrams: alternate angles, corresponding angles, interior angle, exterior angle)

Percentages

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

- To decrease £50 by 15%
  $0.85 \times £50$ (100% − 15% = 85%)
  OR
  £50 − 15% of £50

Compound Interest

Invest £250 at 4% for 3 years

Amount $= 250 \times 1.04^3$

Fractions

(worked fraction examples)

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

$2^3 \times 2^1 = 2^{3+1} = 2^4$
$7^3 \div 7^2 = 7^{3-2} = 7^1$
$(2^3)^2 = 2^{3\times2} = 2^6$
$2^{-1} =$ the reciprocal of 2 (i.e. ½)

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, ...

Ratio

- Calculate fraction of quantity
  To find $\frac{4}{5}$ of a quantity $= \div 5 \times 4$
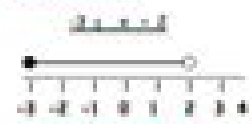 e.g. $\frac{4}{5}$ of £20 $= 20 \div 5 \times 4 = £16$

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 bracket)
$5x - 15 = 3x + 7$ (3x from both sides)
$2x - 15 = 7$ (+15 to each side)
$2x = 22$ (÷2 both sides)
$\frac{2x}{2} = \frac{22}{2}$
$x = 11$

Inequalities

(number line −4 to 4)

Standard Form

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

Brackets
Other things ² √
Divide
Multiply
Add
Subtract

Simplifying expressions

$3x + 4y - 7 - 2y = 3x + 8y - 7$
$5p^2 - 2p + p^2 + 6p^2 - 2p$

Expanding brackets

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

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	+3
x	x^2	3x
+4	4x	12
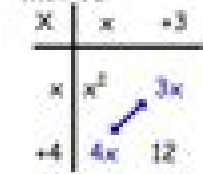
Sequences

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

Maths Revision Guide

Paul Broadbent

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1. Understanding the eBook Maths Revision Guide
   - The Rise of Digital Reading Maths Revision Guide
   - Advantages of eBooks Over Traditional Books
2. Identifying Maths Revision Guide
   - Exploring Different Genres
   - Considering Fiction vs. Non-Fiction
   - Determining Your Reading Goals
3. Choosing the Right eBook Platform
   - Popular eBook Platforms
   - Features to Look for in an Maths Revision Guide
   - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Revision Guide
   - Personalized Recommendations
   - Maths Revision Guide User Reviews and Ratings
   - Maths Revision Guide and Bestseller Lists
5. Accessing Maths Revision Guide Free and Paid eBooks
   - Maths Revision Guide Public Domain eBooks
   - Maths Revision Guide eBook Subscription Services
   - Maths Revision Guide Budget-Friendly Options

  - Interactive and Gamified eBooks

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