Circle diagram
circumference

MAJOR

segment

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 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

Percentages
- To increase £12 by 5%
  $1.05 \times £12$
  OR
  £12 + 5% of £12
- To decrease £50 by 15%
  $0.85 \times £50$
  OR
  £50 - 15% of £50

Compound Interest
Invest £250 at 4% for 3 years

Amount $= 250 \times 1.04^3$

Fractions

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

Sum of exterior angles $= 360°$

alternate angles

corresponding angles

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
$2^3 \times 2^2 = 2^{3+2} = 2^5$
$7^4 \div 7^2 = 7^{4-2} = 7^2$
$(2^3)^2 = 2^{3 \times 2} = 2^6$
2^{-1} = the reciprocal of 2 (i.e. 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 $= \div 5 \times 4$

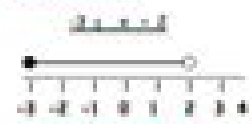e.g. $\frac{4}{5}$ of £20 $= 20 \div 5 \times 4 = £16$

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

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

Brackets
Other things $^2 \sqrt{}$
Divide
Multiply
Add
Subtract

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

Expanding brackets
$5(x + 2) = 5x + 10$
$3(x + 2) - 2(x + 5)$
$= 3x + 6 - 2x - 10$
$= x - 4$

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
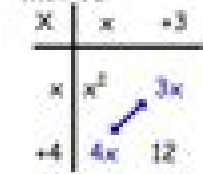
Sequences
If the 1st difference is constant, it is linear
e.g. 3 7 11 15 19 23 ...
      +4 +4 +4 +4 +4

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

Karin Nielsen-Saines

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Table of Contents Maths Revision Guide

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

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peroxy radicals the reaction class is divided into 20 subclasses based on the newly formed cycle size of the transition state the positions of the peroxy radical and the transferred h atom and the types of carbons from which the h atom

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requires significant amounts of energy for example splitting h 2 into 2h has a Δh of 435 kj mol and cl 2 into 2cl has a Δh of 243 kj mol this is known as the homolytic bond dissociation energy and is usually abbreviated as the

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