

Transformations

You need to know:

- Centre e.g. (5, 4)
- Scale factor e.g. 2

Ratio

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

A : B
3 : 5 = 8 shares
One share = £240 ÷ 8 = £30
A = 3 shares = 3 x £30 = £90
B = 5 shares = 5 x £30 = £150

Calculate fraction of quantity
To find $\frac{4}{5}$ of a quantity $\rightarrow 5 \times 4$

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

You need to know:

- Translate a shape
- Vector from A to B e.g. $\begin{pmatrix} 2 \\ 4 \end{pmatrix}$

Percentages

- To increase £12 by 25%
 $1.25 \times £12$ (part + 25 = ratio)
- OR
 $£12 + 25 \text{ of } £12$
- To decrease £50 by 15%
 $0.85 \times £50$ (100% - 15% = ratio)
- OR
 $£50 - 15\% \text{ of } £50$

Compound Interest

(multiplier)ⁿ x Original Amount
£4000 is invested at 2% for 3 years
 $(1.02)^3 \times £4000$

Fractions

e.g.	$\frac{1}{2} \times \frac{3}{4} = \frac{1 \times 3}{2 \times 4} = \frac{3}{8}$	$\frac{1}{2} \div \frac{3}{4} = \frac{1}{2} \times \frac{4}{3} = \frac{4}{6} = \frac{2}{3}$
e.g.	$5 \times \frac{1}{3} = \frac{5 \times 1}{3} = \frac{5}{3}$	$\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$
e.g.	$5 \div \frac{1}{3} = 5 \times \frac{3}{1} = 15$	$\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

Levels of Indices

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

Standard Form

$2.34 \times 10^4 = 23400$
 $1.7 \times 10^{-3} = 0.0017$
 $(2 \times 10^5) \times (3 \times 10^2) = 6 \times 10^7$
 $(8 \times 10^2) \div (2 \times 10^2) = 4 \times 10^0$
 $52.6 \times 10^2 = 5.26 \times 10^4$

-10 +1 power
x10 -1 power

Inequalities



Expanding Single Brackets

$3(x+2) + 2(x+4) = 3x+6+2x+8 = 5x+14$

Factorise

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

Expanding Double Brackets

$(x+2)(x+4) = x^2 + 4x + 2x + 8 = x^2 + 6x + 8$

Factorising Quadratics

$x^2 + 6x + 8$
Find two numbers which multiply together to give +8 and add together to give +6
i.e. $4 \times 2 = 8$ and $4 + 2 = 6$
 $(x+4)(x+2)$

Solving Quadratics

$x^2 - 7x + 12 = 0$
 $(x-4)(x-3) = 0$
 $x=4$ or $x=3$

Quadratic Formula

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Completing the Square

$x^2 - 8x + 3$
Have the b value
 $(x-4)^2 - 4^2 + 3$
 $(x-4)^2 - 16 + 3$
 $(x-4)^2 - 13$

Simultaneous Equations

$3x - 2y = 9$
 $x + y = 4$ x2

Rule: Signs are same take away
Signs different add

$3x - 2y = 9$
 $2x + 2y = 8$ Take away

$x = 1$ $y = 3$

Quadratic Sequences

3, 13, 27, 45, 67

3 13 27 45 67
+10 +14 +18 +22
+4 +4 +4

Halve this number to get the a value

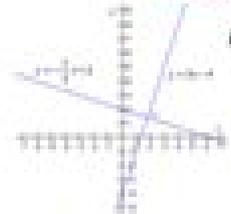
Sequence	3	13	27	45	67
$2n^2$	2	8	18	32	50
Residue	1	5	9	13	17

1 5 9 13 17

$4n - 3$

$2n^2 + 4n - 3$

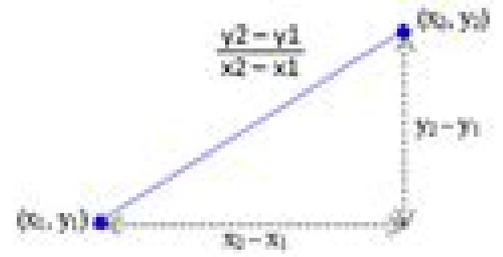
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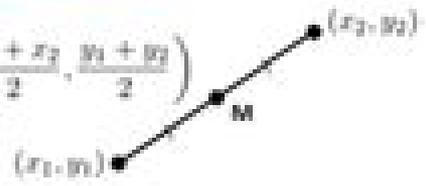
Perpendicular Lines

$m_1 = -\frac{1}{m_2}$

Gradient of a line = $\frac{\text{change in the y direction}}{\text{change in the x direction}}$



Midpoints



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Table of Contents Math Applicationsmasa Revision Guide

1. Understanding the eBook Math Applicationsmasa Revision Guide
 - The Rise of Digital Reading Math Applicationsmasa Revision Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Math Applicationsmasa 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 Math Applicationsmasa Revision Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math Applicationsmasa Revision Guide
 - Personalized Recommendations
 - Math Applicationsmasa Revision Guide User Reviews and Ratings
 - Math Applicationsmasa Revision Guide and Bestseller Lists
5. Accessing Math Applicationsmasa Revision Guide Free and Paid eBooks
 - Math Applicationsmasa Revision Guide Public Domain eBooks
 - Math Applicationsmasa Revision Guide eBook Subscription Services
 - Math Applicationsmasa Revision Guide Budget-Friendly Options
6. Navigating Math Applicationsmasa Revision Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Math Applicationsmasa Revision Guide Compatibility with Devices
 - Math Applicationsmasa Revision Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math Applicationsmasa Revision Guide
 - Highlighting and Note-Taking Math Applicationsmasa Revision Guide
 - Interactive Elements Math Applicationsmasa Revision Guide
8. Staying Engaged with Math Applicationsmasa Revision Guide

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math Applicationsmasa Revision Guide
9. Balancing eBooks and Physical Books Math Applicationsmasa Revision Guide
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math Applicationsmasa Revision Guide
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Math Applicationsmasa Revision Guide
- Setting Reading Goals Math Applicationsmasa Revision Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Math Applicationsmasa Revision Guide
- Fact-Checking eBook Content of Math Applicationsmasa Revision Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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