

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 × £30 = £90
B = 5 shares = 5 × £30 = £150

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

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

Percentages

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

Compound Interest

(multiplier)ⁿ × 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. | $5 \div \frac{1}{3} = 5 \times \frac{3}{1} = 15$ | $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$ |

Law of Indices

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

Standard Form

$2.34 \times 10^4 = 23400$
 $1.7 \times 10^{-3} = 0.0017$
 $(2 \times 10^5) \times (3 \times 10^2) = 6 \times 10^7$
 $(8 \times 10^2) \div (2 \times 10^3) = 4 \times 10^{-1}$
 $52.6 \times 10^2 = 5.26 \times 10^3$

-10 +1 power
 $\times 10$ -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
 $(x-4)^2-16+3$
 $(x-4)^2-13$

Simultaneous Equations

$3x+2y=9$
 $x+y=4$ $\times 2$

Rule: Signs are same take away
Signs different add

$3x+2y=9$
 $2x+2y=8$ Take away
 $x+1y=3$

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

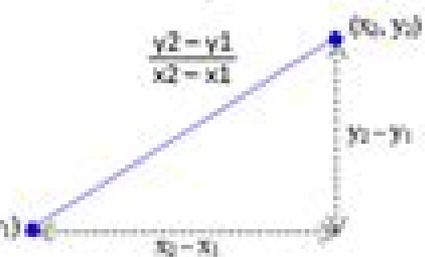
| | | | | | |
|----------|---|----|----|----|----|
| Sequence | 3 | 13 | 27 | 45 | 67 |
| $2n^2$ | 2 | 8 | 18 | 32 | 50 |
| Residue | 1 | 5 | 9 | 13 | 17 |

$1 \quad 5 \quad 9 \quad 13 \quad 17$
 $4n-3$
 $2n^2+4n-3$

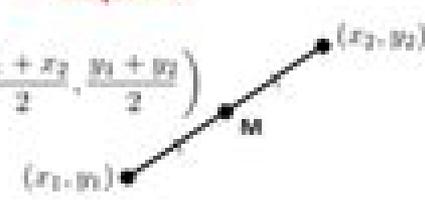
Gradients

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

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

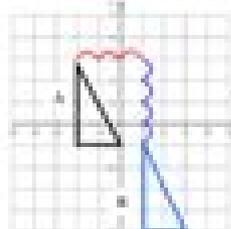


Midpoints



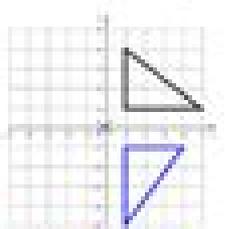
Translate a shape

You need to know:
 Vector from A to B e.g. $\begin{pmatrix} 2 \\ 4 \end{pmatrix}$ units



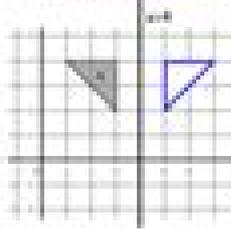
Rotate a shape

You need to know:
 Angle e.g. 90°
 Direction e.g. clockwise
 Centre of rotation e.g. (5,5)



Reflect a shape

You need to know:
 Agree the equation of the line



LOCUS is the path or region a point covers as it moves according to a rule

- Fixed distance from a point **circle**
- Equal distance from two points **perpendicular bisector**
- Equal distance from two intersecting lines **angle bisector**
- Perpendicular from a point to a line

Linear Maths Gcse Revision Guide

Adam Arnell



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Table of Contents Linear Maths Gcse Revision Guide

1. Understanding the eBook Linear Maths Gcse Revision Guide
 - The Rise of Digital Reading Linear Maths Gcse Revision Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Linear Maths Gcse 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 Linear Maths Gcse Revision Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Linear Maths Gcse Revision Guide
 - Personalized Recommendations

- Linear Maths Gcse Revision Guide User Reviews and Ratings
- Linear Maths Gcse Revision Guide and Bestseller Lists
- 5. Accessing Linear Maths Gcse Revision Guide Free and Paid eBooks
 - Linear Maths Gcse Revision Guide Public Domain eBooks
 - Linear Maths Gcse Revision Guide eBook Subscription Services
 - Linear Maths Gcse Revision Guide Budget-Friendly Options
- 6. Navigating Linear Maths Gcse Revision Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Linear Maths Gcse Revision Guide Compatibility with Devices
 - Linear Maths Gcse Revision Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Linear Maths Gcse Revision Guide
 - Highlighting and Note-Taking Linear Maths Gcse Revision Guide
 - Interactive Elements Linear Maths Gcse Revision Guide
- 8. Staying Engaged with Linear Maths Gcse Revision Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Linear Maths Gcse Revision Guide
- 9. Balancing eBooks and Physical Books Linear Maths Gcse Revision Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Linear Maths Gcse Revision Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Linear Maths Gcse Revision Guide
 - Setting Reading Goals Linear Maths Gcse Revision Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Linear Maths Gcse Revision Guide
 - Fact-Checking eBook Content of Linear Maths Gcse 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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