

# IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

## Cambridge IGCSE™

Candidate  
name

Candidate  
number

Candidate  
number

MATHEMATICS

Paper 2 (Extended)

0580/22

October/November 2022

1 hour 45 minutes

You must answer on the question paper.

For help, read: General Instructions

**Solved**

### INSTRUCTIONS

- Answer all questions.
- Use a pencil in both hand parts. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answers to each question in the spaces provided.
- Do not use an erasable pen or correction fluid.
- Do not write on any bar codes.
- Any drawing use a ruler and compass where appropriate.

1. Solve the simultaneous equations by the method of elimination, giving a full algebraic solution.

(i)  $2x + 3y = 12$       (ii)  $x - y = 4$

Subtract (ii) from (i):  $3x + 4y = 8$       (iii)

Multiply (ii) by 2:  $2x - 2y = 8$       (iv)

Subtract (iv) from (iii):  $6y = 0$       (v)

From (v),  $y = 0$

Substitute  $y = 0$  into (ii):  $x - 0 = 4$       (vi)

From (vi),  $x = 4$

The solution is  $x = 4$ ,  $y = 0$

2. The diagram shows three triangles, A, B and C.

3. The diagram shows a circle with centre O. The points A, B, C and D are on the circumference. The lines AB, BC, CD and DA are drawn. The angle AOB is  $120^\circ$  and the angle COD is  $120^\circ$ . The angle BOC is  $120^\circ$ .

4. The diagram shows a circle with centre O. The points A, B, C and D are on the circumference. The lines AB, BC, CD and DA are drawn. The angle AOB is  $120^\circ$  and the angle COD is  $120^\circ$ . The angle BOC is  $120^\circ$ .

### 5. The table shows the number of books sold in a school library.

	Books sold	Books sold
Books sold	10	20
Books sold	30	40

Books sold

Books sold

Books sold

Books sold

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## **Table of Contents Maths Paper Oct Nov 2013 9712**

1. Understanding the eBook Maths Paper Oct Nov 2013 9712
  - The Rise of Digital Reading Maths Paper Oct Nov 2013 9712
  - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper Oct Nov 2013 9712
  - 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 Paper Oct Nov 2013 9712
  - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper Oct Nov 2013 9712
  - Personalized Recommendations
  - Maths Paper Oct Nov 2013 9712 User Reviews and Ratings
  - Maths Paper Oct Nov 2013 9712 and Bestseller Lists
5. Accessing Maths Paper Oct Nov 2013 9712 Free and Paid eBooks
  - Maths Paper Oct Nov 2013 9712 Public Domain eBooks
  - Maths Paper Oct Nov 2013 9712 eBook Subscription Services
  - Maths Paper Oct Nov 2013 9712 Budget-Friendly Options

6. Navigating Maths Paper Oct Nov 2013 9712 eBook Formats
  - ePub, PDF, MOBI, and More
  - Maths Paper Oct Nov 2013 9712 Compatibility with Devices
  - Maths Paper Oct Nov 2013 9712 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Maths Paper Oct Nov 2013 9712
  - Highlighting and Note-Taking Maths Paper Oct Nov 2013 9712
  - Interactive Elements Maths Paper Oct Nov 2013 9712
8. Staying Engaged with Maths Paper Oct Nov 2013 9712
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Maths Paper Oct Nov 2013 9712
9. Balancing eBooks and Physical Books Maths Paper Oct Nov 2013 9712
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maths Paper Oct Nov 2013 9712
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Maths Paper Oct Nov 2013 9712
  - Setting Reading Goals Maths Paper Oct Nov 2013 9712
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Paper Oct Nov 2013 9712
  - Fact-Checking eBook Content of Maths Paper Oct Nov 2013 9712
  - 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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