

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

Candidate
name

Candidate
number

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number

MATHEMATICS

Paper 2 (Extended)

0580/22

October/November 2022

1 hour 45 minutes

You must answer on the question paper.

For help, visit: [Cambridge International](https://www.cambridgeinternational.org)

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 rough work should be done on separate paper.

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): $2x + 3y - (x - y) = 12 - 4$
 $x + 4y = 8$ (iii)

Subtract (iii) from (i): $2x + 3y - (x + 4y) = 12 - 8$
 $x - y = 4$ (iv)

Subtract (iv) from (ii): $x - y - (x - y) = 4 - 4$
 $0 = 0$

Substitute $x = 4 + y$ into (i): $2(4 + y) + 3y = 12$
 $8 + 2y + 3y = 12$
 $5y = 4$
 $y = \frac{4}{5}$

Substitute $y = \frac{4}{5}$ into (ii): $x - \frac{4}{5} = 4$
 $x = 4 + \frac{4}{5} = \frac{24}{5}$

The solution is $x = \frac{24}{5}$, $y = \frac{4}{5}$.

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

(i) Find the size of the angle marked x .

(ii) Find the size of the angle marked y .

(iii) Find the size of the angle marked z .

3. The table shows the number of books sold by a school library.

Category	Books sold
Novels	120
Non-fiction	80
Comics	40

Calculate the mean number of books sold per category.

4. The diagram shows a circle with centre O. The points A, B, C and D are on the circumference. The angle AOB is 120° and the angle COD is 80° . The angle AOC is 100° .

(i) Find the size of the angle BOD.

(ii) Find the size of the angle ADB.

(iii) Find the size of the angle BDC.

Mathematics 8th November 2013

Peter Schwabe, Nicolas Thériault



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