

# 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 30 minutes

You must answer on the question paper.

For help, read: General Instructions

**Solved**

### INSTRUCTIONS

- Answer all questions.
- Use a black or dark blue pen. 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 (iii):  $(x + 4y) - (x - y) = 8 - 4$   
 $5y = 4$   
 $y = \frac{4}{5}$

Substitute  $y = \frac{4}{5}$  into (ii):  $x - \frac{4}{5} = 4$   
 $x = 4 + \frac{4}{5} = \frac{20}{5} + \frac{4}{5} = \frac{24}{5}$

∴  $x = \frac{24}{5}$  and  $y = \frac{4}{5}$

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

(i) Find the size of the interior angle  $x$  in triangle A.

(ii) Find the size of the interior angle  $y$  in triangle B.

(iii) Find the size of the interior angle  $z$  in triangle C.

(iv) Find the size of the interior angle  $w$  in triangle D.

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

Category	Books sold
Novels	120
Textbooks	80
Reference books	40
Other books	20

Find the total number of books sold.

4. The diagram shows a circle with centre O. The points A, B, C and D are on the circumference. The angle AOC is  $120^\circ$  and the angle BOD is  $80^\circ$ .

(i) Find the angle AOB.

(ii) Find the angle COD.

(iii) Find the angle AOD.

(iv) Find the angle BOC.

# Xtreme Igcse Math Paper 43 Winter 2013

**Sai Gopal Sunkara**



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