

# IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

## Cambridge IGCSE™

Candidate  
name

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number

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MATHEMATICS

Paper 2 (Extended)

0580/22

October/November 2022

1 hour 30 minutes

You must answer on the question paper.

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**Solved**

### INSTRUCTIONS

- Answer all questions.
- Use a pencil in this test paper. 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 in your candidate's name 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.

17a. 
$$\begin{cases} 2x + 3y = 12 & (1) \\ 3x + 2y = 10 & (2) \end{cases}$$
  
17b. 
$$\begin{cases} 4x + 5y = 23 & (1) \\ 3x + 2y = 10 & (2) \end{cases}$$

18. Express each of the following sets as a Venn diagram.

Maths, History, Mathematics, History

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



20. Express each of the following in the form  $a + bi$ , where  $a$  and  $b$  are real numbers.

20a. 
$$(1 + i)^2 + (1 - i)^2$$
  
20b. 
$$(1 + i)^2 + (1 - i)^2$$

21. The table shows the number of books sold in a library.

Category	Books sold
Novels	120
Non-fiction	80

22. Solve the equation.

22a. 
$$x^2 - 5x + 6 = 0$$
  
22b. 
$$x^2 - 5x + 6 = 0$$

23. Solve the equation.

23a. 
$$x^2 - 5x + 6 = 0$$
  
23b. 
$$x^2 - 5x + 6 = 0$$

# Math Igcse Paper 2 November 2013 058

**S. A. I. Gopal SUNKARA**



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