

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: Candidate Instructions

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 to each question in the spaces provided.
- Do not use an erasable pen or correction fluid.
- Do not write on any bar codes.
- You should use a calculator where appropriate.

1. Solve the simultaneous equations by the method of elimination.

(1) $2x + 3y = 12$ (2) $x - y = 4$

From (2), $x = 4 + y$. Substituting into (1),

$$2(4 + y) + 3y = 12$$
$$8 + 2y + 3y = 12$$
$$5y = 4$$
$$y = \frac{4}{5}$$

Substituting $y = \frac{4}{5}$ into (2),

$$x - \frac{4}{5} = 4$$
$$x = 4 + \frac{4}{5} = \frac{24}{5}$$

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

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

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

(b) Find the size of the exterior angle y in triangle B.

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

(d) Find the size of the exterior angle w in triangle C.

3. The table shows the number of books sold.

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Victor M. Corman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Math Igcse Paper 2 November 2013 0580:

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