

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

Candidate
name

Candidate
number

Candidate
number

MATHEMATICS

0580/22

Paper 2 (Extended)

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 rough work should be done on separate paper.

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

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

Subtract (2) from (1): $(2x + 3y) - (x - y) = 12 - 4$
 $x + 4y = 8$ (3)

From (2), $x = y + 4$. Substitute into (3):
 $(y + 4) + 4y = 8$
 $5y = 4$
 $y = \frac{4}{5}$

Substitute $y = \frac{4}{5}$ into (2):
 $x - \frac{4}{5} = 4$
 $x = 4 + \frac{4}{5} = \frac{24}{5}$

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

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

Find the size of the angles marked with an asterisk.

Triangle A: $\angle A = 110^\circ$, $\angle B = 70^\circ$, $\angle C = 10^\circ$

Triangle B: $\angle A = 110^\circ$, $\angle B = 70^\circ$, $\angle C = 10^\circ$

Triangle C: $\angle A = 110^\circ$, $\angle B = 70^\circ$, $\angle C = 10^\circ$

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

Category	Books sold
Novels	120
Textbooks	80
Reference books	40

Calculate the mean number of books sold per category.

Mean = $\frac{120 + 80 + 40}{3} = \frac{240}{3} = 80$

4. The diagram shows a circle with centre O. The points A, B, C, D, E, F are on the circumference. The angles are marked as follows:

$\angle AOB = 120^\circ$, $\angle BOC = 80^\circ$, $\angle COD = 60^\circ$, $\angle DOE = 40^\circ$, $\angle EOF = 20^\circ$

Find the size of the angle marked with an asterisk.

Angle marked with an asterisk = $180^\circ - (120^\circ + 80^\circ + 60^\circ + 40^\circ + 20^\circ) = 180^\circ - 320^\circ = -140^\circ$

October November 2maths Igcse Paper

Albert A Gayle



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