

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: General 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 graphing.

17a. $y = 2x + 1$ and $y = x^2 - 3x + 4$

$y = 2x + 1$ and $y = x^2 - 3x + 4$

$x^2 - 3x + 4 = 2x + 1$

$x^2 - 5x + 3 = 0$

$x = 1$ and $x = 4$

$y = 3$ and $y = 9$

$(1, 3)$ and $(4, 9)$

17b. Solve the simultaneous equations by graphing.

$y = x^2 - 3x + 4$ and $y = 2x + 1$

$x^2 - 3x + 4 = 2x + 1$

$x^2 - 5x + 3 = 0$

$x = 1$ and $x = 4$

$y = 3$ and $y = 9$

$(1, 3)$ and $(4, 9)$

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



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

Books sold	Number of books sold	Frequency
0-10	10	1
10-20	20	2
20-30	30	3
30-40	40	4
40-50	50	5

Find the mean.

Mean = $\frac{\sum fx}{\sum f}$

$\frac{1 \times 10 + 2 \times 20 + 3 \times 30 + 4 \times 40 + 5 \times 50}{1 + 2 + 3 + 4 + 5}$

$\frac{10 + 40 + 90 + 160 + 250}{15}$

$\frac{550}{15}$

36.67

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

$\angle AOB = 40^\circ$, $\angle BOC = 50^\circ$, $\angle COD = 60^\circ$, $\angle DOE = 70^\circ$, $\angle EOF = 80^\circ$, $\angle FOG = 90^\circ$, $\angle GOH = 100^\circ$, $\angle HOI = 110^\circ$, $\angle IOJ = 120^\circ$.

Find the angle $\angle AOC$.

$\angle AOC = \angle AOB + \angle BOC$

$\angle AOC = 40^\circ + 50^\circ$

$\angle AOC = 90^\circ$

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