

# 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, visit: [Cambridge International](https://www.cambridgeinternational.org)

**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 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. The diagram shows the number of items in a box of 100 items. The number of items in each box is given in the table.

| Number of items | Frequency |
|-----------------|-----------|
| 10              | 10        |
| 20              | 20        |
| 30              | 30        |
| 40              | 20        |
| 50              | 10        |
| 60              | 10        |

(a) Find the mean number of items in a box. (4 marks)

(b) Find the standard deviation of the number of items in a box. (4 marks)

2. The diagram shows three triangles, A, B and C, with vertices marked by dots.

(a) Triangle A is an isosceles triangle. Find the size of the angle marked  $x$ . (2 marks)

(b) Triangle B is a right-angled triangle. Find the size of the angle marked  $y$ . (2 marks)

(c) Triangle C is a right-angled triangle. Find the size of the angle marked  $z$ . (2 marks)

### 3. The table shows the number of items in a box.

| Number of items | Frequency |
|-----------------|-----------|
| 10              | 10        |
| 20              | 20        |
| 30              | 30        |
| 40              | 20        |
| 50              | 10        |

Find the

mean of the

number of items

in the boxes.

Find the

standard deviation

of the number of items

in the boxes.

4. The diagram shows a circle with centre O. The points A, B, C and D are on the circumference of the circle. The angle AOB is  $120^\circ$  and the angle BOC is  $80^\circ$ . The angle COD is  $40^\circ$  and the angle DOA is  $60^\circ$ . Find the size of the angle AOC. (2 marks)

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**Léo Pomar**



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