

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 30 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 in a box	Frequency
10	1
20	2
30	3
40	4
50	5
60	6
70	7
80	8
90	9
100	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 in a box	Frequency
10	1
20	2
30	3
40	4
50	5
60	6
70	7
80	8
90	9
100	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° and the angle BOC is 80° . The angle COD is 40° and the angle DOA is 60° . Find the size of the angle AOC. (2 marks)

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Thirumalaisamy P.
Velavancorresponding



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