

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

Candidate
name

Candidate
number

Candidate
number

0580/22

Page 1 (continued)

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 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. 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 each box.

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

Find the

mean of the

number of items

in the boxes.

(4 marks)

Find the

standard deviation

of the number of items

in the boxes.

(4 marks)

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 AOC is 120° and the angle BOD is 100° . The angle AOB is 80° and the angle COD is 60° . Find the size of the angle AOD. (4 marks)

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Jiyuan Zhang



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