

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

Candidate
name

Candidate
number

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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 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 language in the spaces provided.
- Do not use an erasable pen or correction fluid.
- Do not write on any bar codes.
- Any amount of a calculator where appropriate.

1. The diagram shows the number of items in a box of 10 items. The number of items in each box is given in the table.

Number of items in a box	Frequency
1	2
2	3
3	4
4	1

(Total 10 items)

(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.

(a) Prove that the three triangles are similar. (4 marks)

(b) Find the value of x . (2 marks)

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

Number of items in a box	Frequency
1	2
2	3
3	4
4	1

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, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z are marked on the circumference of the circle.

(a) Find the value of x . (4 marks)

(b) Find the value of y . (4 marks)

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