

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

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MATHEMATICS

Paper 2 (Extended)

0580/22

October/November 2022

1 hour 45 minutes

You must answer on the question paper.

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Solved

INSTRUCTIONS

- Answer all questions.
- Use a pencil in both book and pen. 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 own handwriting 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	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 of 100 items. (4 marks)

(b) Find the standard deviation of the number of items in a box of 100 items. (4 marks)

2. The diagram shows three triangles, A, B and C, which are similar. The lengths of the sides of triangle A are 3 cm, 4 cm and 5 cm. The lengths of the sides of triangle B are 6 cm, 8 cm and 10 cm. The lengths of the sides of triangle C are 9 cm, 12 cm and 15 cm.

(a) Find the ratio of the area of triangle A to the area of triangle B. (2 marks)

(b) Find the ratio of the area of triangle A to the area of triangle C. (2 marks)

3. The table shows the number of items in a box of 100 items.

Number of items	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 of 100 items. (4 marks)

(b) Find the standard deviation of the number of items in a box of 100 items. (4 marks)

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