

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

Candidate
name

Candidate
number

Candidate
number

MATHEMATICS

0580/22

Paper 2 (Extended)

October/November 2022

1 hour 30 minutes

You must answer on the question paper.

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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 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) Draw a histogram for the data. The width of each bar is 10 units. The height of each bar is the frequency. (4 marks)

(b) Find the mean number of items in a box. (3 marks)

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

2. The diagram shows a circle with centre O. A line segment AB is drawn. A line segment AC is drawn. A line segment BC is drawn. A line segment AD is drawn. A line segment BE is drawn. A line segment CF is drawn. A line segment DG is drawn. A line segment EH is drawn. A line segment FI is drawn. A line segment GJ is drawn. A line segment HK is drawn. A line segment IL is drawn. A line segment JM is drawn. A line segment KN is drawn. A line segment LO is drawn. A line segment MP is drawn. A line segment NQ is drawn. A line segment OR is drawn. A line segment PS is drawn. A line segment QT is drawn. A line segment RU is drawn. A line segment SV is drawn. A line segment TW is drawn. A line segment UX is drawn. A line segment VY is drawn. A line segment WZ is drawn. A line segment XA is drawn. A line segment YB is drawn. A line segment ZC is drawn. A line segment AD is drawn. A line segment BE is drawn. A line segment CF is drawn. A line segment DG is drawn. A line segment EH is drawn. A line segment FI is drawn. A line segment GJ is drawn. A line segment HK is drawn. A line segment IL is drawn. A line segment JM is drawn. A line segment KN is drawn. A line segment LO is drawn. A line segment MP is drawn. A line segment NQ is drawn. A line segment OR is drawn. A line segment PS is drawn. A line segment QT is drawn. A line segment RU is drawn. A line segment SV is drawn. A line segment TW is drawn. A line segment UX is drawn. A line segment VY is drawn. A line segment WZ is drawn. A line segment XA is drawn. A line segment YB is drawn. A line segment ZC is drawn.

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

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10	1
20	2
30	3
40	4
50	5
60	6
70	7
80	8
90	9
100	10

Find the

mean number

of items in a box.

(4 marks)

Find the

standard deviation

of the number of items

in a box.

(4 marks)

4. The diagram shows a circle with centre O. A line segment AB is drawn. A line segment AC is drawn. A line segment BC is drawn. A line segment AD is drawn. A line segment BE is drawn. A line segment CF is drawn. A line segment DG is drawn. A line segment EH is drawn. A line segment FI is drawn. A line segment GJ is drawn. A line segment HK is drawn. A line segment IL is drawn. A line segment JM is drawn. A line segment KN is drawn. A line segment LO is drawn. A line segment MP is drawn. A line segment NQ is drawn. A line segment OR is drawn. A line segment PS is drawn. A line segment QT is drawn. A line segment RU is drawn. A line segment SV is drawn. A line segment TW is drawn. A line segment UX is drawn. A line segment VY is drawn. A line segment WZ is drawn. A line segment XA is drawn. A line segment YB is drawn. A line segment ZC is drawn.

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Jianjun Gao



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