

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 45 minutes

You must answer on the question paper.

For use with: Calculator (non-programmable)

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 at regular intervals.

(a) Find the gradient of the line.

Gradient = $\frac{100 - 0}{10 - 0} = 10$ (1 mark)

(b) Express the line in the form $y = mx + c$ where m and c are constants.

Equation: $y = 10x$ (1 mark)

2. The diagram shows three triangles, A, B and C.

(a) Find the area of triangle A. Give your answer in cm^2 .

Area = $\frac{1}{2} \times 3 \times 4 = 6$ (1 mark)

(b) Find the area of triangle B. Give your answer in cm^2 .

Area = $\frac{1}{2} \times 4 \times 3 = 6$ (1 mark)

(c) Find the area of triangle C. Give your answer in cm^2 .

Area = $\frac{1}{2} \times 5 \times 12 = 30$ (1 mark)

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

Number of items	Frequency
1	1
2	2
3	3
4	4
5	5

Find the mean.

Mean = $\frac{1 \times 1 + 2 \times 2 + 3 \times 3 + 4 \times 4 + 5 \times 5}{1 + 2 + 3 + 4 + 5}$

$= \frac{1 + 4 + 9 + 16 + 25}{15}$

$= \frac{55}{15}$

$= 3\frac{1}{3}$

Mean = $3\frac{1}{3}$ (1 mark)

Find the standard deviation.

Standard deviation = $\sqrt{\frac{1 \times 1^2 + 2 \times 2^2 + 3 \times 3^2 + 4 \times 4^2 + 5 \times 5^2}{15} - \left(\frac{55}{15}\right)^2}$

$= \sqrt{\frac{1 + 8 + 27 + 64 + 125}{15} - \left(\frac{55}{15}\right)^2}$

$= \sqrt{\frac{225}{15} - \left(\frac{55}{15}\right)^2}$

$= \sqrt{15 - \frac{3025}{225}}$

$= \sqrt{\frac{3375 - 3025}{225}}$

$= \sqrt{\frac{350}{225}}$

$= \sqrt{\frac{14}{9}}$

$= \frac{\sqrt{14}}{3}$ (1 mark)

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Sai Gopal Sunkara



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