Please check the examination details below before entering your candidate information

Candidate surname	Other names

Centre Number | Candidate Number

Spring 2026

Pearson Edexcel Level 1/Level 2 GCSE (9–1)

AIMING FOR GRADE 8

38 marks (40 minutes)

Paper reference **1MA1/1H**

Mathematics

PAPER 1 (Non-Calculator)

Higher Tier

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB or B pencil, eraser, Formulae Sheet (enclosed). Tracing paper may be used.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
  – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may not be used.**

Information

- The total mark for this paper is 38. There are 10 questions.
- Questions have been broadly arranged in an ascending order of mean difficulty, as found by students achieving Grade 8 in the Summer and November 2025 examinations.
- Questions marked with an asterisk (*) also appear on the Foundation Tier paper.
- The marks for **each** question are shown in brackets
  – *use this as a guide as to how much time to spend on each question.*

Advice

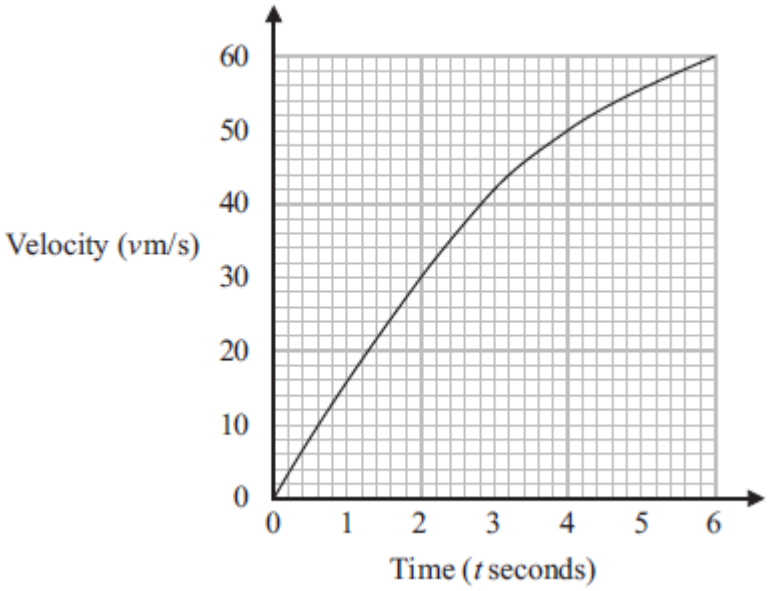
- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Answer all questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 The graph shows the velocity, v m/s, of a particle t seconds after it starts to move.



(a) (i) Work out an estimate of the gradient of the graph at $t = 3$
You must show how you get your answer.

.....

(3)

(ii) What does this gradient represent?

.....

.....

(1)

(b) Work out an estimate for the distance the particle travelled in the first 6 seconds.
Use 3 strips of equal width.

..... m

(3)

(Total for Question 1 is 7 marks)

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2 $\frac{\sqrt{27}-1}{2-\sqrt{3}}$ can be written in the form $a + b\sqrt{3}$ where a and b are integers.

Work out the value of a and the value of b.

a = ...

b = ...

(Total for Question 2 is 4 marks)

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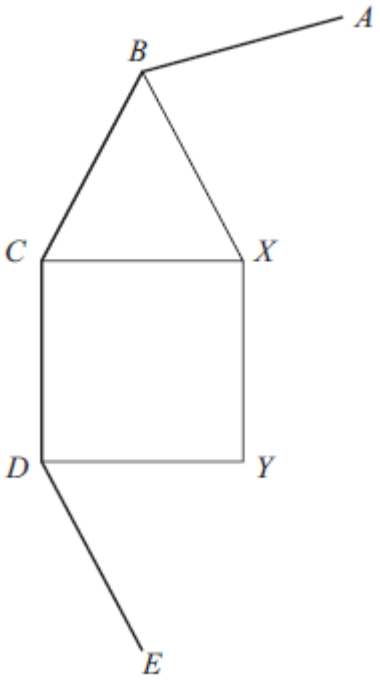
3 Solve $7 + x \leq \frac{5x}{2} - 8$

.....

(Total for Question 3 is 3 marks)

*** 4** *AB*, *BC*, *CD* and *DE* are four sides of a regular polygon with *n* sides.



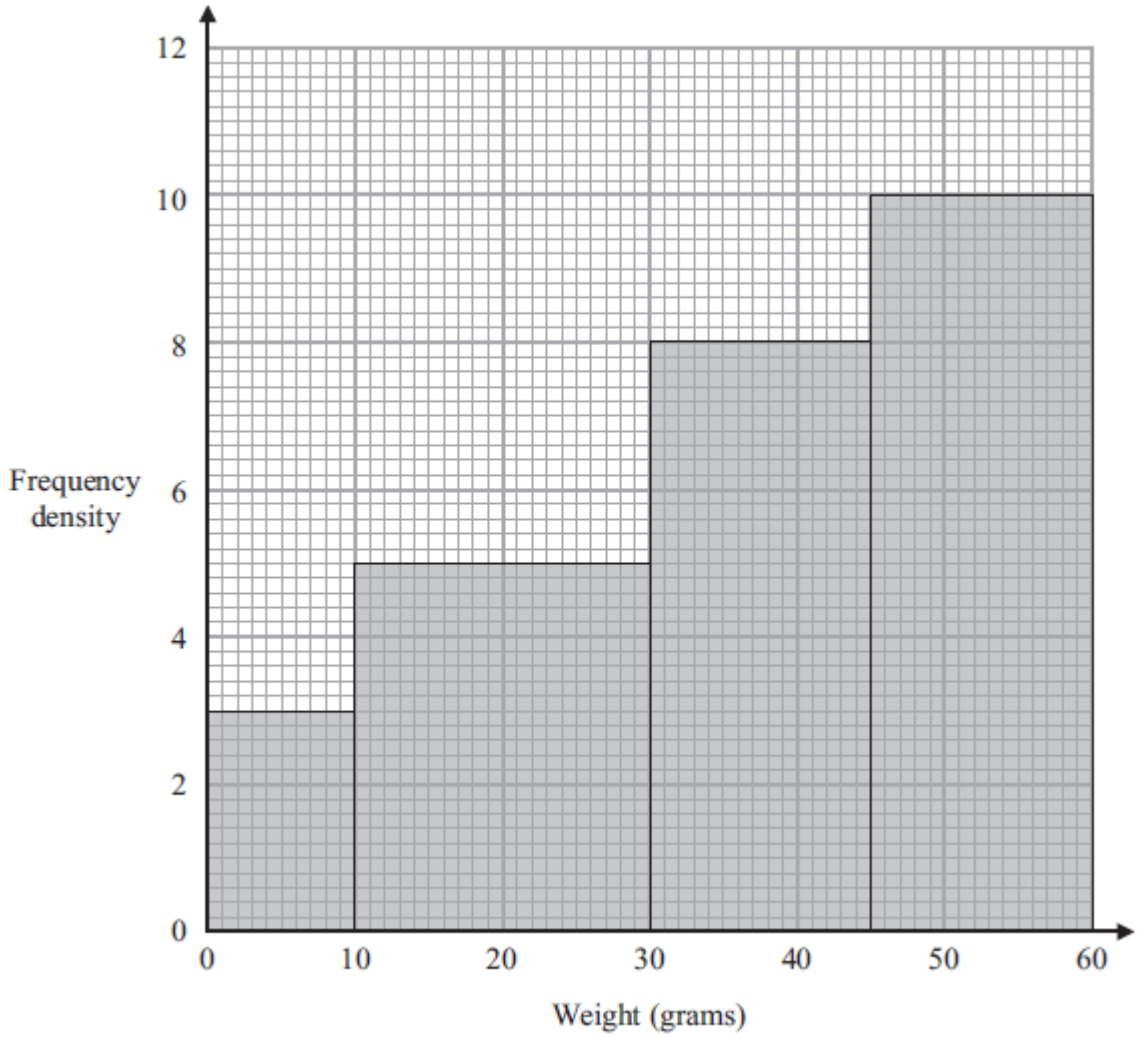
BCX is an equilateral triangle.
CDYX is a square.

Work out the value of *n*.
You must show all your working.

n = ...

(Total for Question 4 is 4 marks)

5 The histogram gives information about the weights, in grams, of some biscuits.



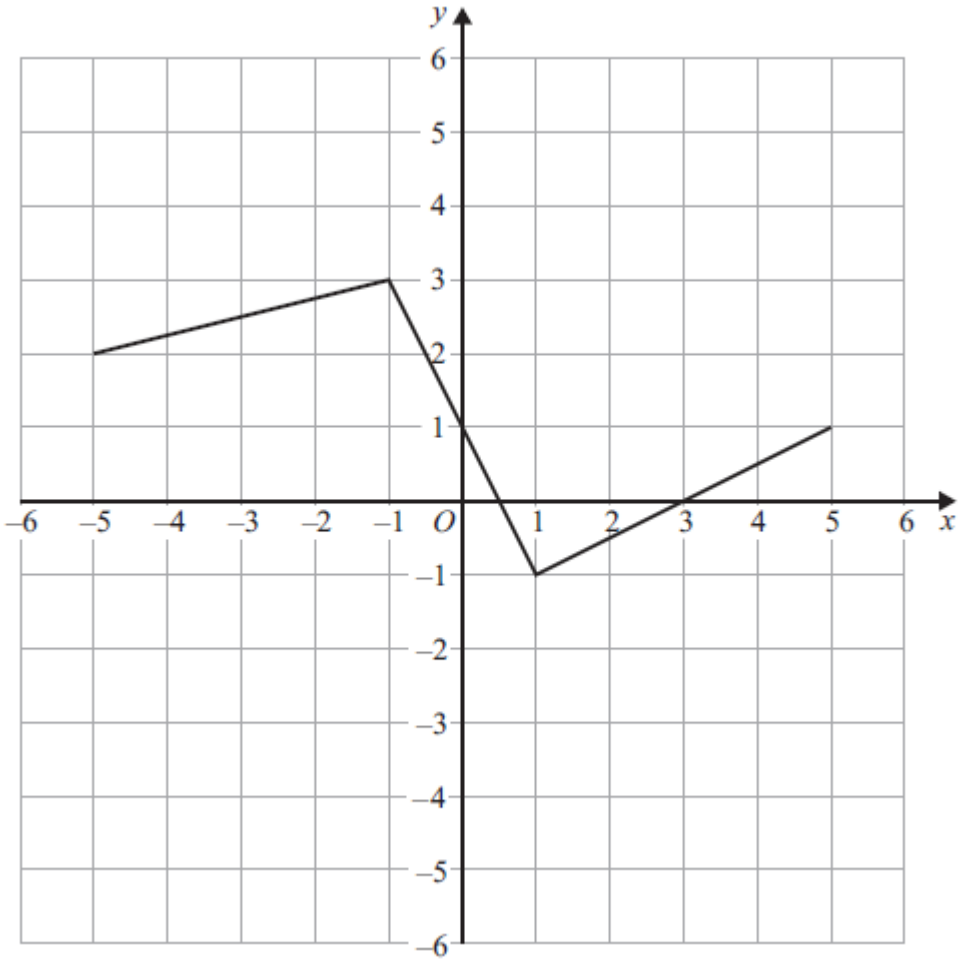
One of these biscuits is taken at random.

Work out an estimate for the probability that the biscuit will have a weight between 20 grams and 40 grams.

.....

(Total for Question 5 is 4 marks)

6 Here is the graph of $y = f(x)$



On the grid, draw the graph of $y = -f(x)$

(Total for Question 6 is 2 marks)

7 $9^{2x} \times 27^2 \times 81^{3x-2} = \frac{1}{3^{18}}$

Find the value of x.
You must show all your working.

x = ...

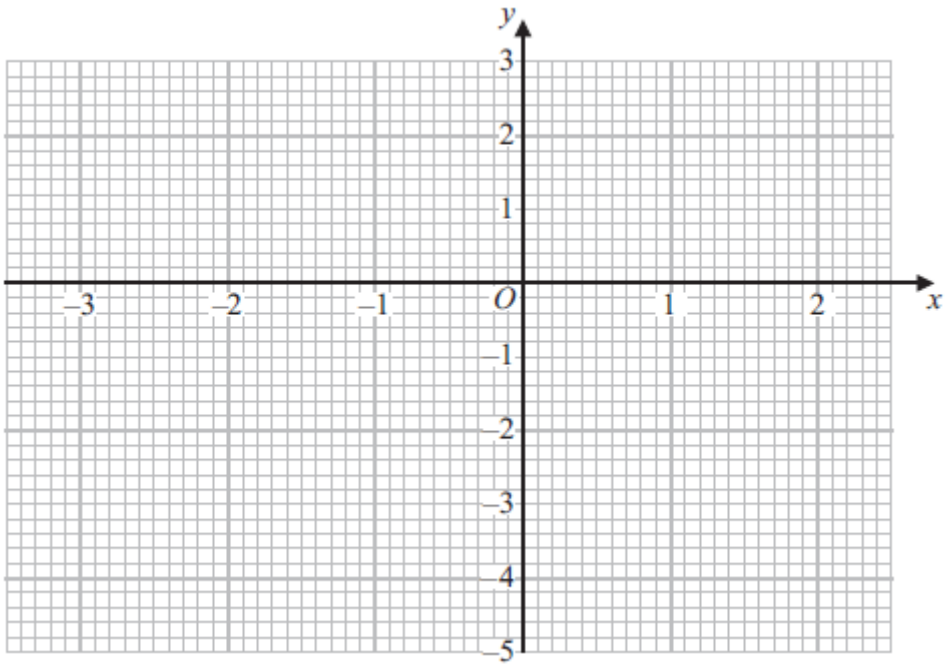
(Total for Question 7 is 4 marks)

*** 8** (a) Complete the table of values for $y = x^2 + x - 4$

x	–3	–2	–1	0	1	2
y	2		–4			

(2)

(b) On the grid, draw the graph of $y = x^2 + x - 4$ for values of x from –3 to 2



(2)

(c) Write down the coordinates of the turning point of the graph of $y = x^2 + x - 4$

(..... , ...)

(1)

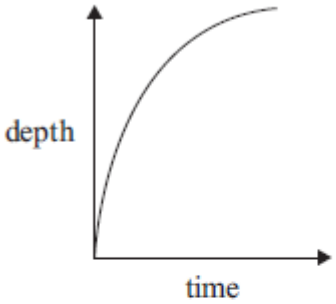
(Total for Question 8 is 5 marks)

*** 9** **A**, **B**, **C** and **D** are four containers.

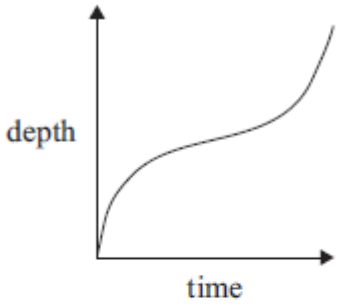
Water is poured into the containers at a constant rate.

The sketch graphs below show the depth of water in each container, *t* seconds after the water starts to be poured.

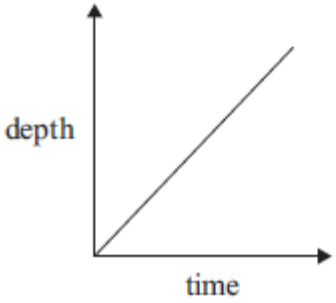
Graph 1



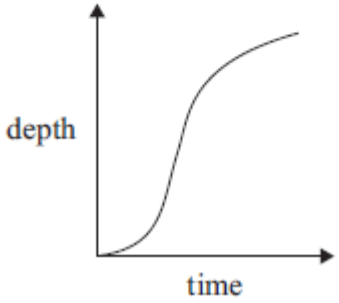
Graph 2



Graph 3



Graph 4

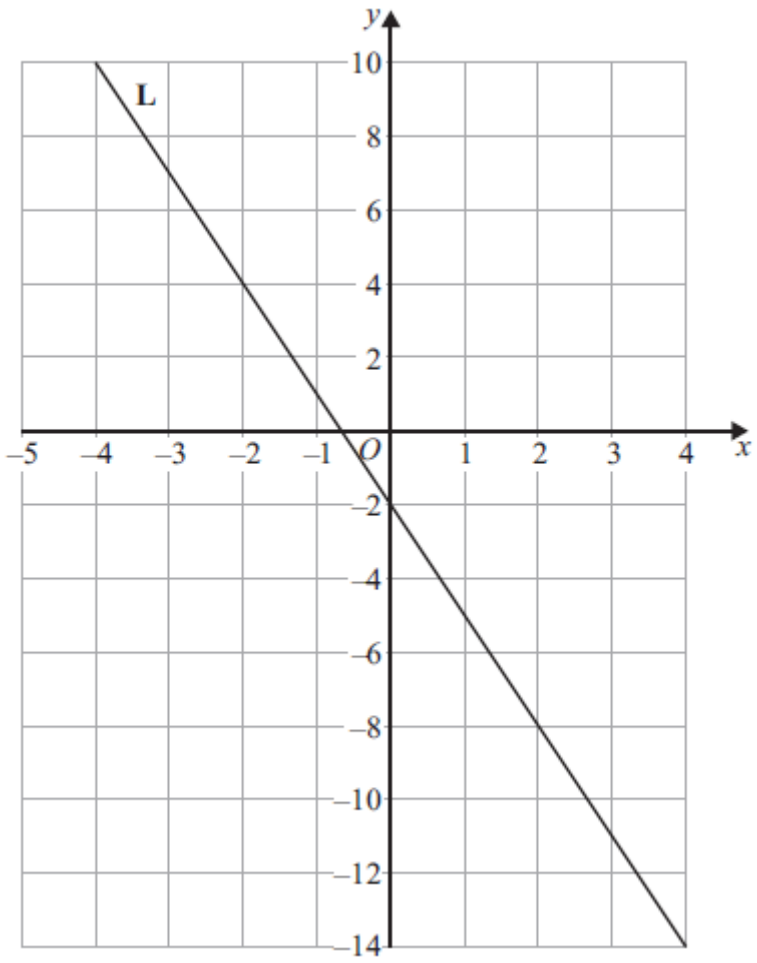


Match each graph to the correct container.

Container	Graph
A	
B	
C	
D	

(Total for Question 9 is 2 marks)

*** 10** The line **L** is shown on the grid.



Find an equation for **L**.
Give your answer in the form $y = mx + c$

.....

(Total for Question 10 is 3 marks)

TOTAL FOR PAPER IS 38 MARKS