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 9

37 marks (35 minutes)

Paper reference **1MA1/2H**

Mathematics

PAPER 2: (Calculator)

Higher Tier

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB or B pencil, eraser, calculator, 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 be used.**

Information

- The total mark for this paper is 37. There are 11 questions.
- Questions have been broadly arranged in an ascending order of mean difficulty, as found by students achieving Grade 9 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 straight line **L** has equation $2x + y = 5$
C is a circle with centre the origin and radius 6

L and **C** intersect at point *A* and at point *B*.

Find the coordinates of point *A* and the coordinates of point *B*.
Give your coordinates correct to 2 decimal places.

Point *A* (..... , ...)

Point *B* (..... , ...)

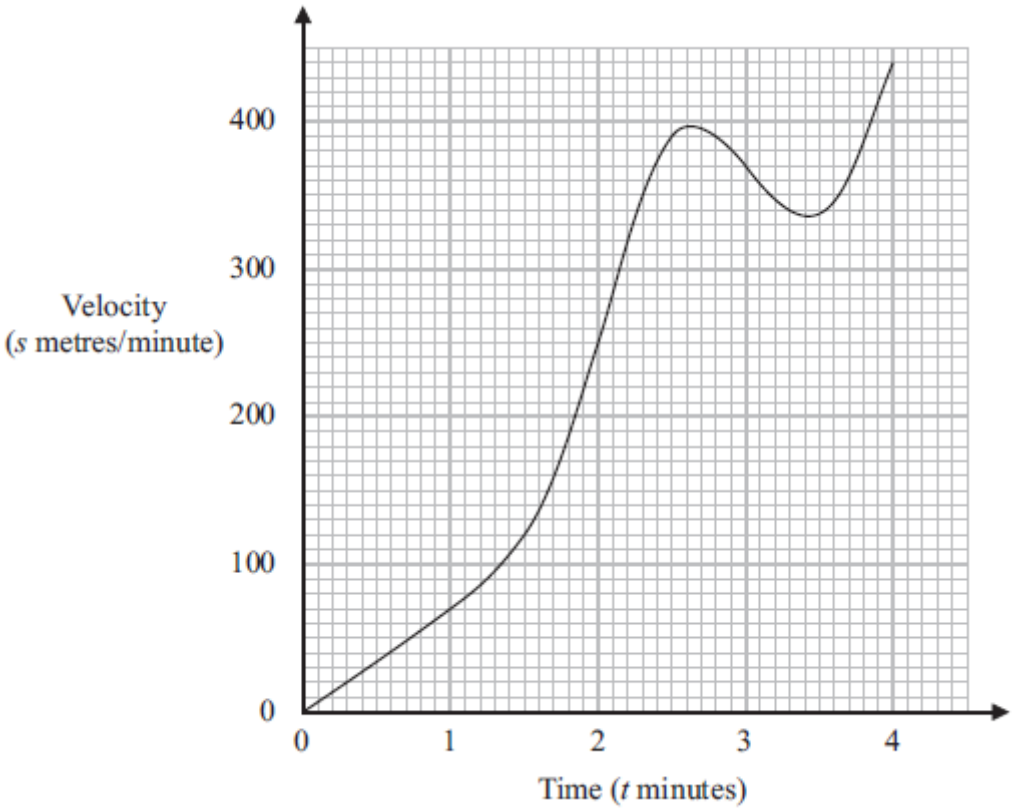
(Total for Question 1 is 5 marks)

2 Solve $(3x - 1)(5x + 2) < 0$

.....

(Total for Question 2 is 2 marks)

3 Here is the velocity–time graph for an object.



(a) Work out an estimate for the acceleration, in metres/minute^2, of the object when $t = 1.5$
You must show how you get your answer.

..... metres/minute^2
(3)

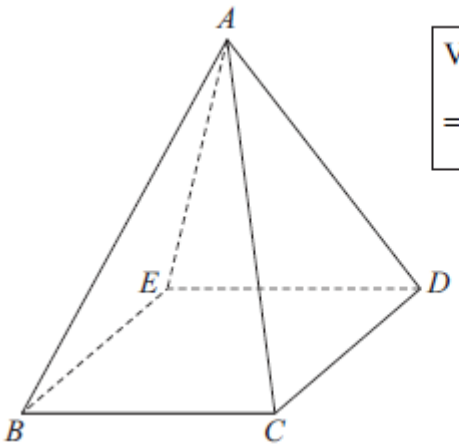
(b) Work out an estimate for the distance travelled by the object between $t = 0$ and $t = 4$
Use 4 strips of equal width.

..... metres

(3)

(Total for Question 3 is 6 marks)

4 The diagram shows a solid pyramid *ABCDE* on horizontal ground.



Volume of pyramid
$= \frac{1}{3}$ area of base × perpendicular height

The base *BCDE* of the pyramid is a square with sides of length 14 cm.
The vertex *A* of the pyramid is vertically above the midpoint of *BD*.

The angle between *AB* and the base of the pyramid is 68°

Calculate the volume of the pyramid.
Give your answer correct to 2 significant figures.

..... cm^3

(Total for Question 4 is 4 marks)

5 $3x^{-1}(4x - x^3) = a + bx^n$ for all the values of x that are not zero.

Find the value of a, the value of b and the value of n.

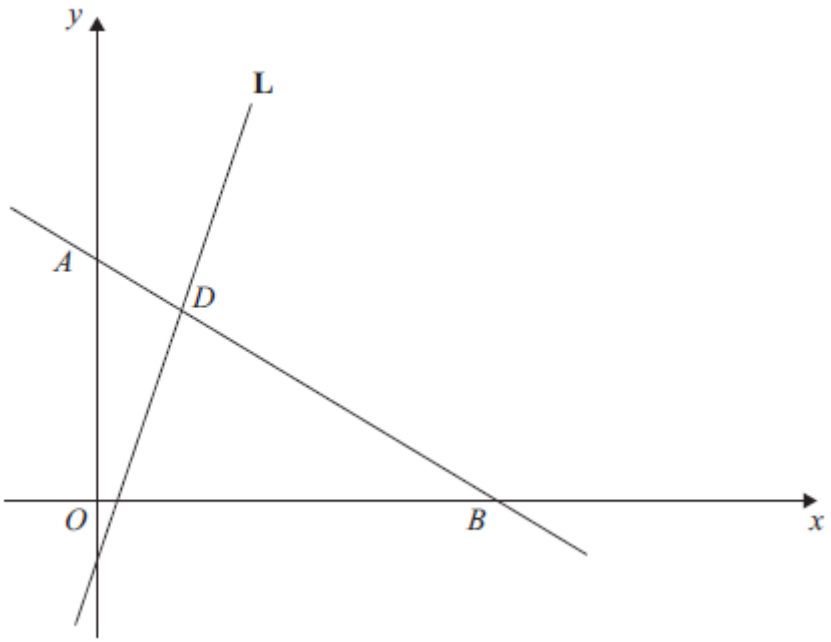
a = ...

b = ...

n = ...

(Total for Question 5 is 2 marks)

6



In the diagram

A is the point (0, 8)

B is the point (16, 0)

The point *D* divides the line segment *AB* in the ratio 1 : 3

The line **L** passes through *D*.

The gradient of **L** is $\sqrt{3}$

L passes through the point with coordinates $(-2, f)$

Show that $f < -4$

(Total for Question 6 is 5 marks)

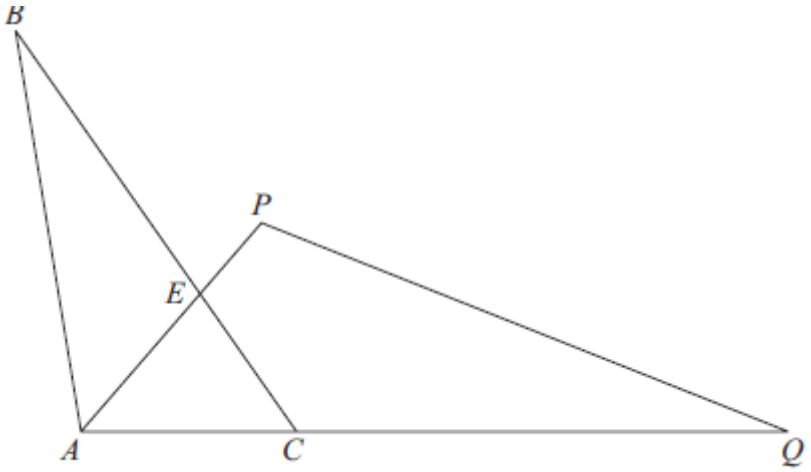
7 The weight of an elephant is 4100 kilograms, correct to the nearest 50 kilograms.

Complete the error interval for the weight of the elephant.

..... kg ≤ weight < ..... kg

(Total for Question 7 is 2 marks)

8



The diagram shows triangle ABC and triangle APQ
$AQ = 3AC$

The point E lies on the line CB such that $CE : EB = 2 : 3$

$\overrightarrow{AE} = \mathbf{a}$ $\overrightarrow{AC} = \mathbf{b}$

Express $\overrightarrow{QB}$ in terms of **a** and **b**.
Give your answer in its simplest form.

.....

(Total for Question 8 is 4 marks)

9 There are 15 dogs in a dog show.
One dog is awarded first prize.
A different dog is awarded second prize.

There are 12 cats in a cat show.
One cat is awarded first prize.
A different cat is awarded second prize.

Work out how many different ways these four prizes can be awarded.

.....

(Total for Question 9 is 3 marks)

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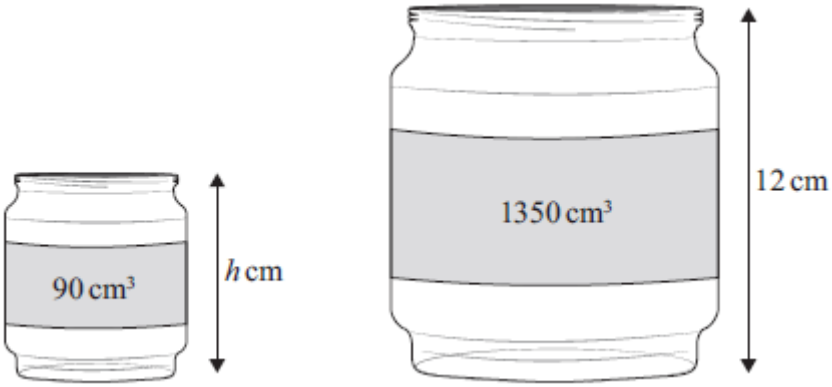
10 Two jars are mathematically similar.



The surface area of the smaller jar is A cm^2
The surface area of the larger jar is pA cm^2

Find the exact value of p.

p = ...

(Total for Question 10 is 1 mark)

11 Dave has these seven cards.

1	3	4	6	7	8	9

Dave is going to use 5 of these cards to make a number that is less than 45 000

How many different 5-digit numbers that are less than 45 000 can Dave make?

.....

(Total for Question 13 is 3 marks)

TOTAL FOR PAPER IS 37 MARKS