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

**34 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 34. There are 8 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**

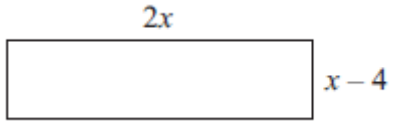
- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

**Answer all questions.**

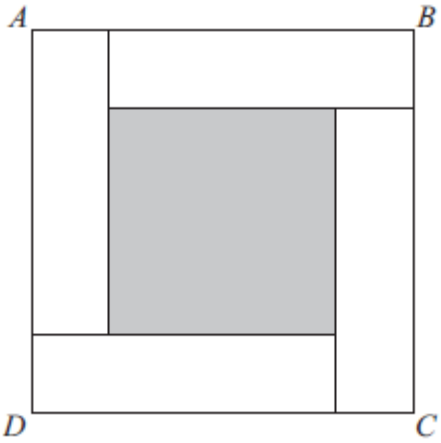
**Write your answers in the spaces provided.**

**You must write down all the stages in your working.**

*** 1** Here is a rectangle.




Four of these rectangles and a shaded square are used to make the square *ABCD* below.



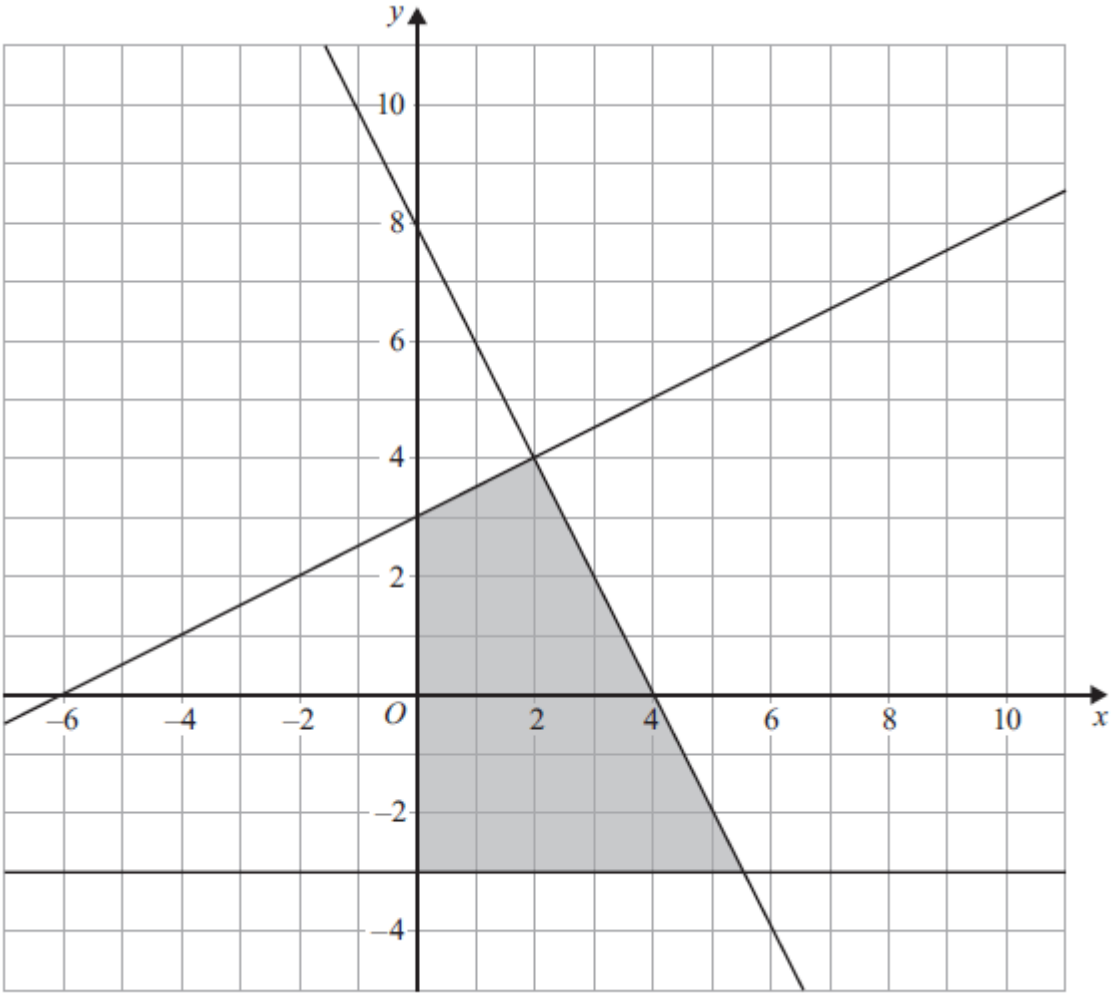

The perimeter of square *ABCD* is 74 cm.

Work out the perimeter of the shaded square.

..... cm

**(Total for Question 1 is 5 marks)**

**2**




Write down the four inequalities that define the shaded region.

.....

.....

.....

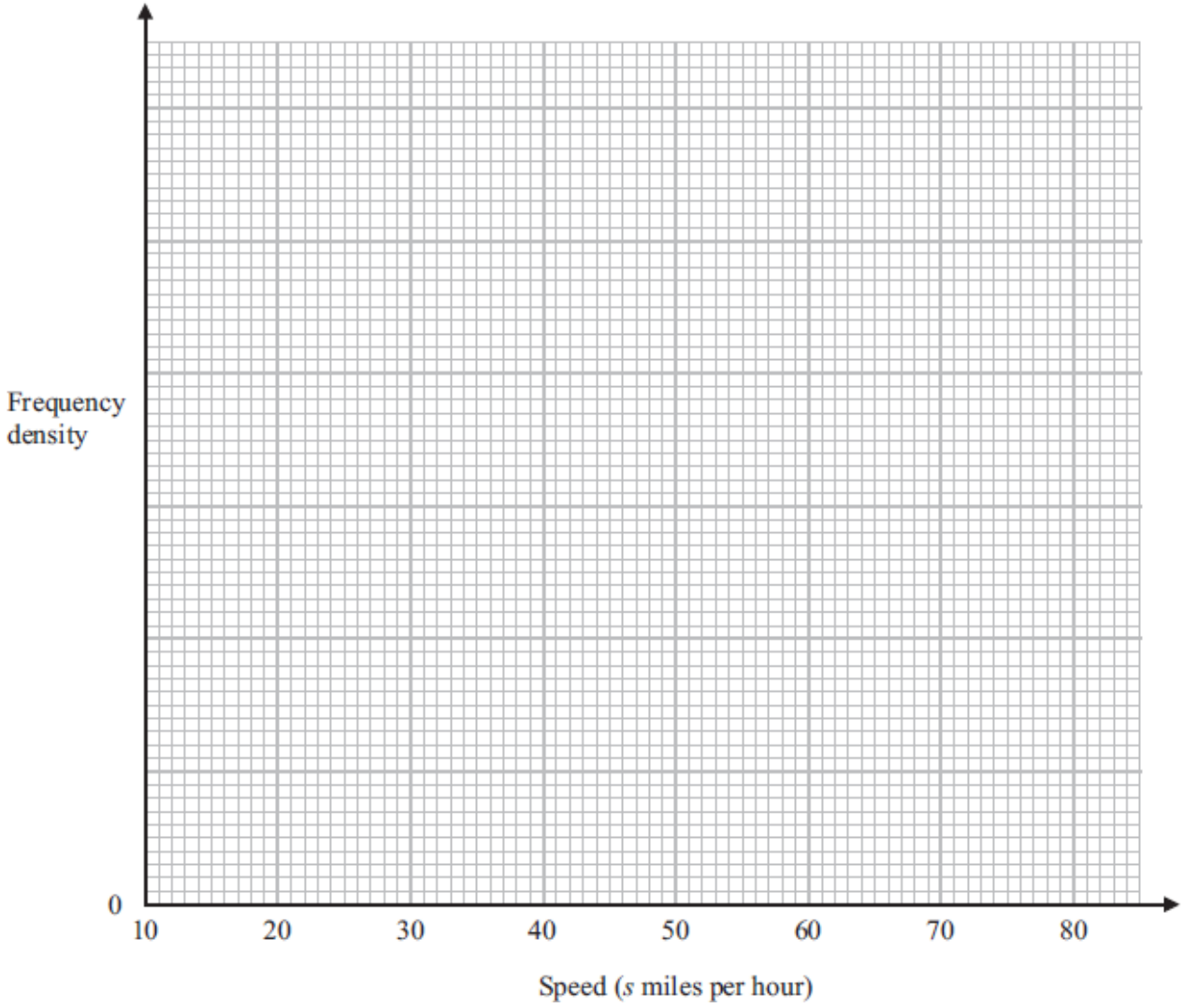
.....

**(Total for Question 2 is 4 marks)**

**3** The table shows information about the average skiing speeds, in miles per hour, of 150 people.

| **Speed ($s$ miles per hour)** | **Frequency** |
|---|---|
| $10 < s \leq 20$ | 11 |
| $20 < s \leq 40$ | 56 |
| $40 < s \leq 65$ | 60 |
| $65 < s \leq 75$ | 17 |
| $75 < s \leq 80$ | 6 |

(a) On the grid below, draw a histogram to represent this information.




**(3)**

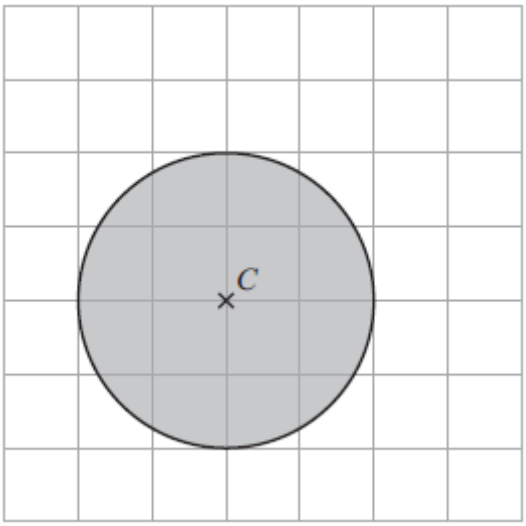
(b) Find an estimate for the number of people with an average skiing speed between 35 miles per hour and 50 miles per hour.

.....

**(3)**

**(Total for Question 3 is 6 marks)**

*** 4** The point $C$ is shown on a centimetre grid.




A point $P$ is at least 2 cm from the point $C$.
Nadia is asked to shade the region where point $P$ could be.

Her answer is shown on the grid.

Explain the mistake Nadia has made.

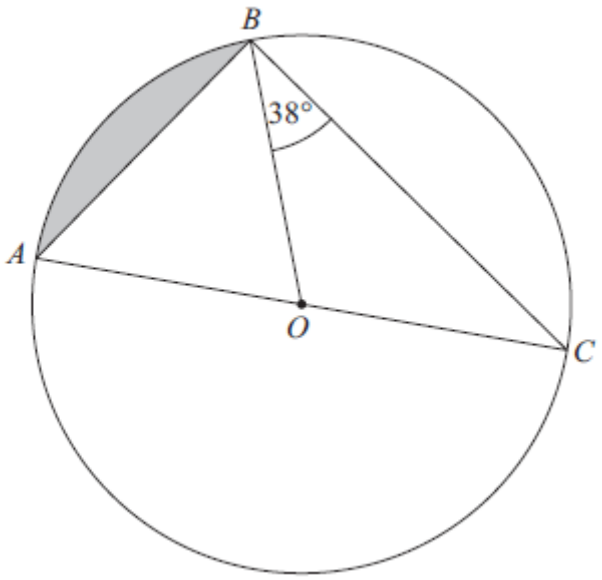
.....

.....

.....

**(Total for Question 4 is 1 mark)**

**5** *A*, *B* and *C* are points on a circle with centre *O* and radius 12 cm.




*AOC* is a diameter of the circle.
Angle *OBC* = 38°

Calculate the area of the shaded segment.
Give your answer correct to 2 decimal places.

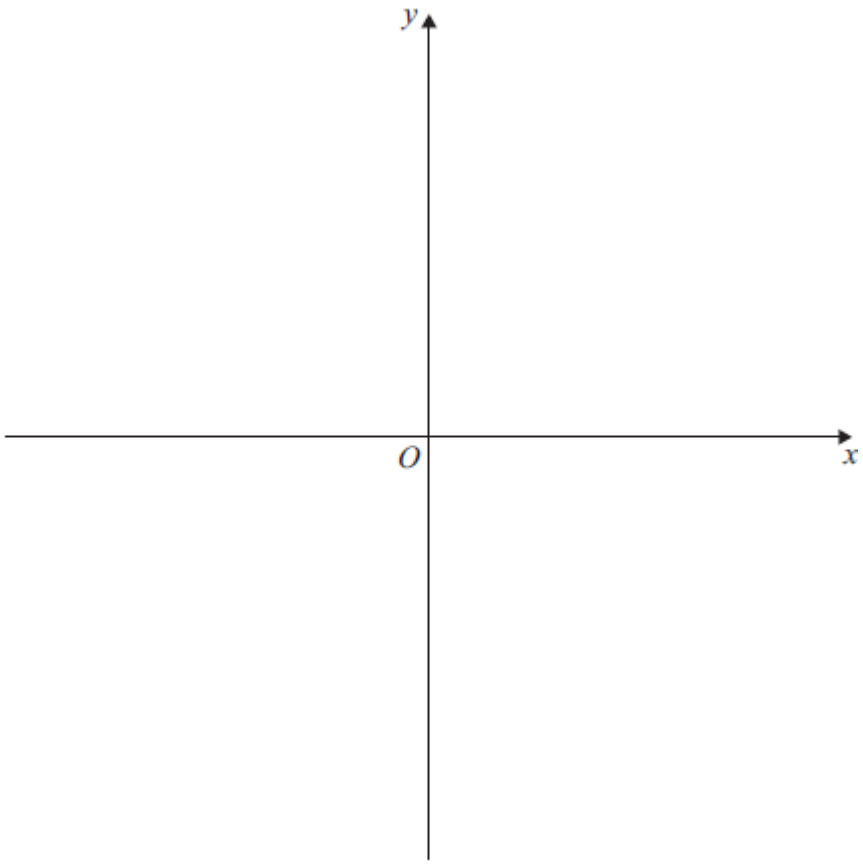
..... $cm^2$

**(Total for Question 5 is 5 marks)**

**6** The equation of circle **A** is $x^2 + y^2 = 25$

Circle **A** is translated by the vector $\begin{pmatrix} 0 \\ -2 \end{pmatrix}$ to give circle **B**.

Sketch circle **B**.
Show the coordinates of
the centre of circle **B**
and the points where circle **B** meets the $y$-axis.

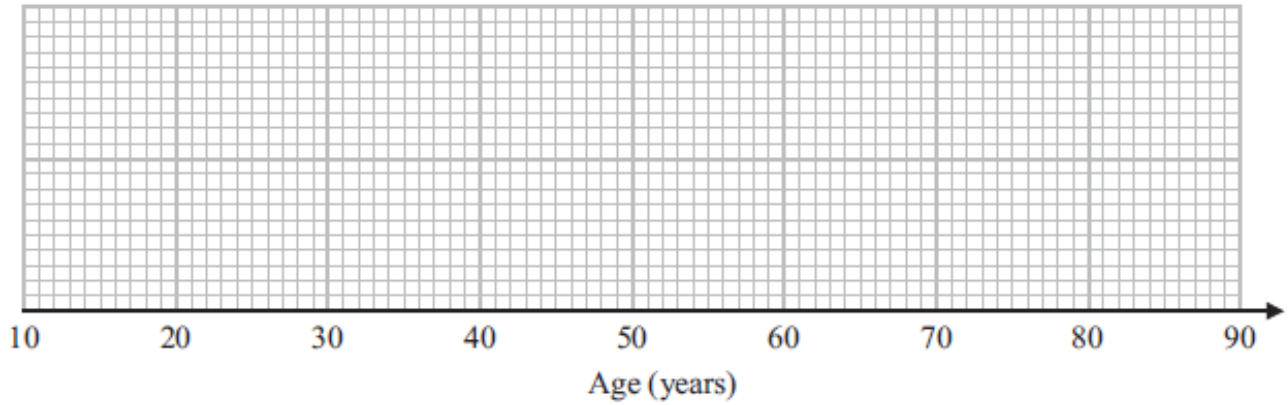



**(Total for Question 6 is 3 marks)**

**7** The table gives some information about the ages, in years, of 32 actors.

| | |
|---|---|
| Lowest age | 21 |
| Highest age | 80 |
| Lower quartile | 31 |
| Upper quartile | 42 |
| Median | 35 |

(a) Draw a box plot to represent this information.




**(3)**

(b) Work out an estimate for the number of these actors with an age between 31 years and 42 years.

.....

**(1)**

Mary says,

"At least one of the actors is 35 years old because the median is 35"

(c) Is Mary correct?
Give a reason for your answer.

.....

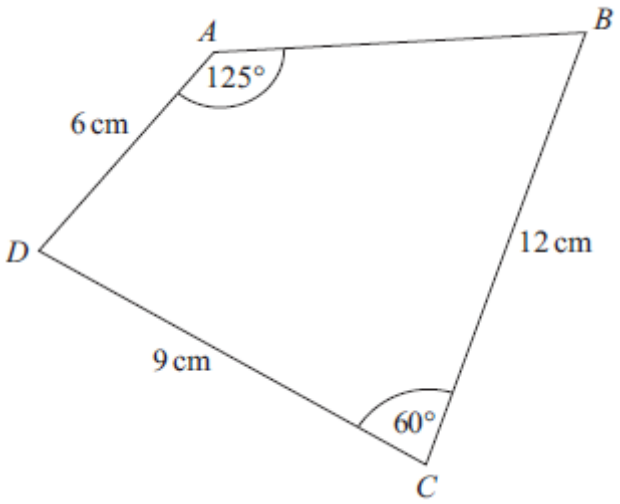
.....

.....

**(1)**

**(Total for Question 7 is 5 marks)**

**8** *ABCD* is a quadrilateral.




Find the size of angle *ABC*.
Give your answer correct to the nearest degree.

.....°

**(Total for Question 8 is 5 marks)**

**TOTAL FOR PAPER IS 35 MARKS**