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 6

31 marks (30 minutes)

Paper reference **1MA1/3H**

Mathematics

Paper 3 (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 31. There are 10 questions.
- Questions have been broadly arranged in an ascending order of mean difficulty, as found by students achieving Grade 6 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

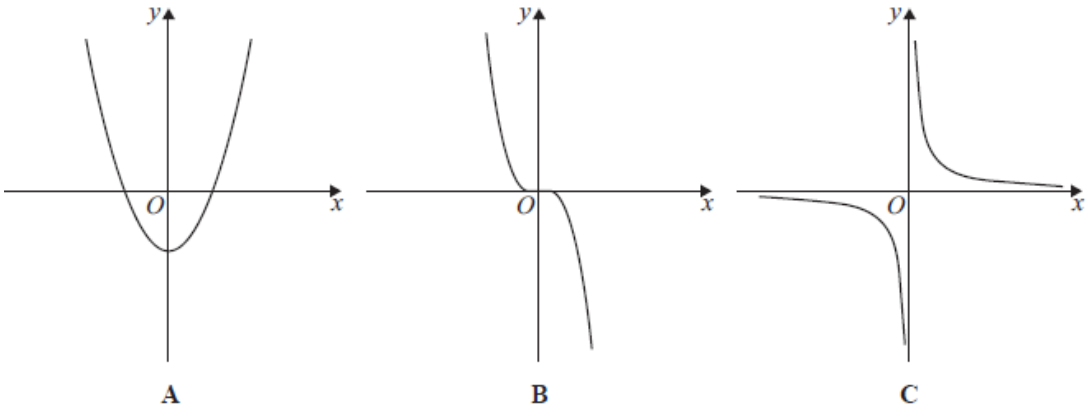
- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Answer all questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

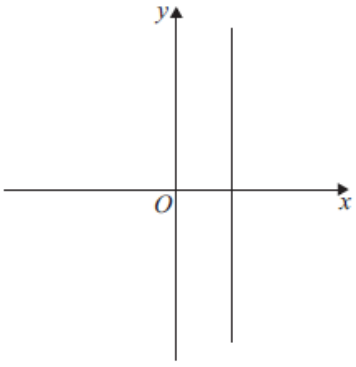
1 Here are five graphs.



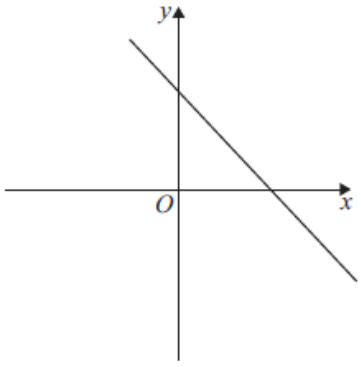
A

B

C



D



E

The equation of each of these graphs is given in the table.

Equation	Graph
$y\frac{1}{x}$	
$x+y=6$	
$y=-x^3$	
$y=x^2-2$	
$x=3$	

Match the letter of each graph to its equation.

(Total for Question 1 is 3 marks)

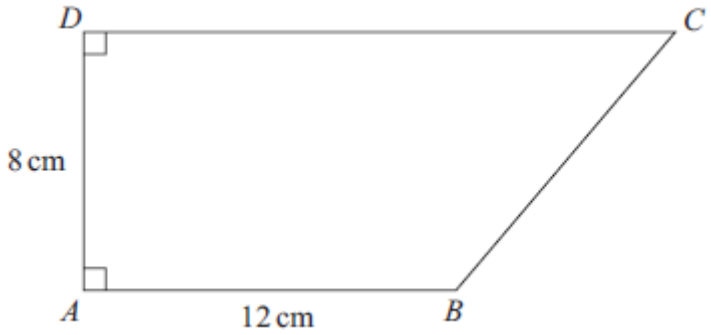
*** 2** A plane takes 2 hours 24 minutes to fly from Luton to Alicante.
The plane flies a distance of 1512 kilometres.

Work out the average speed of the plane.
Give your answer in kilometres per hour.

..... kilometres per hour

(Total for Question 2 is 3 marks)

*** 3** The diagram shows trapezium $ABCD$.



$AB = 12$ cm
$AD = 8$ cm

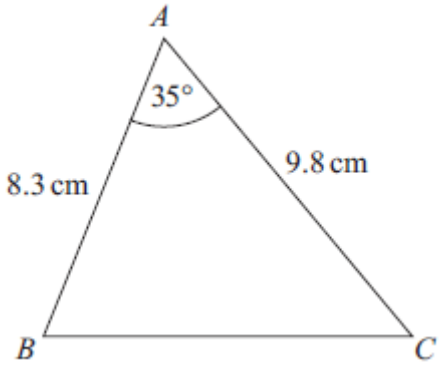
The trapezium has an area of 112 cm^2

Work out the perimeter of the trapezium.
Give your answer correct to 3 significant figures.

..... cm

(Total for Question 3 is 5 marks)

4 Here is triangle *ABC*.

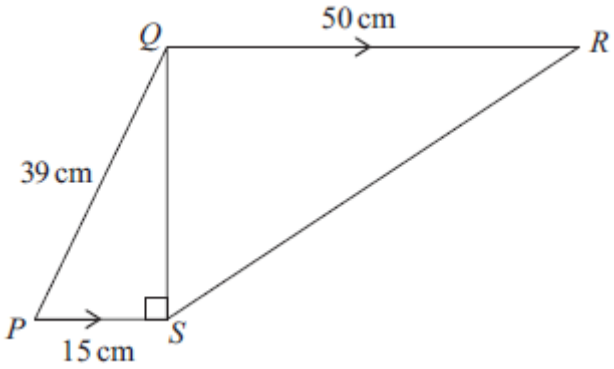


Calculate the area of triangle *ABC*.
Give your answer correct to 3 significant figures.

..... cm^2

(Total for Question 4 is 2 marks)

5 In the diagram, QR is parallel to PS.



Work out the size of angle QRS.
Give your answer correct to 1 decimal place.

.....°

(Total for Question 5 is 4 marks)

6 The price of a holiday is increased by 10%

After the increase, the price of the holiday is £440

Jim says,

"10% of £440 is £44 so the price of the holiday before the increase was £396"

Is Jim correct?
Explain your answer.

.....

.....

.....

(Total for Question 6 is 1 mark)

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7 (a) Show that the equation $2x^3 + x - 8 = 0$ can be written in the form $x = \sqrt[3]{\frac{8-x}{2}}$

(1)

(b) Starting with $x_0 = 1.5$ use the iteration formula $\sqrt[3]{\frac{8-x_n}{2}}$ three times to find an estimate for a solution of $2x^3 + x - 8 = 0$ correct to 3 decimal places.

.....

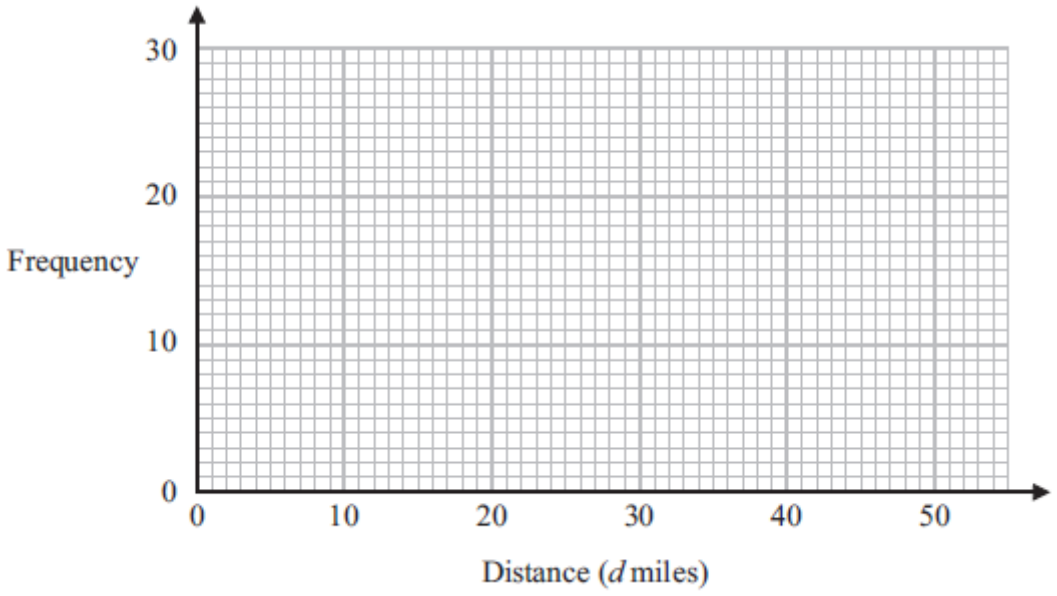
(3)

(Total for Question 7 is 4 marks)

*** 8** The table shows information about the distances that 60 people travel to work.

Distance (d miles)	Frequency
$0 < d \leqslant 10$	12
$10 < d \leqslant 20$	25
$20 < d \leqslant 30$	10
$30 < d \leqslant 40$	8
$40 < d \leqslant 50$	5

Draw a frequency polygon for the information in the table.



(Total for Question 8 is 2 marks)

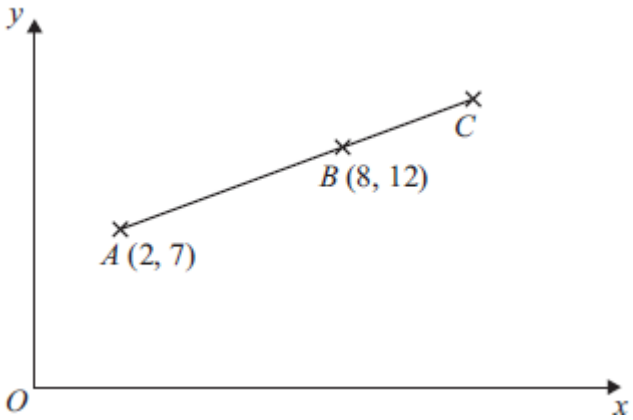
*** 9** In London, 2 kg of carrots cost £3.75
In New York, 5 lbs of carrots cost 4.90 US dollars.

£1 = 1.20 US dollars
1 kg = 2.2 lbs

In which city are carrots better value for money, London or New York?
You must show how you get your answer.

(Total for Question 9 is 4 marks)

*** 10** ABC is a straight line.



Point A has coordinates (2, 7)
Point B has coordinates (8, 12)

$BC = \frac{1}{2} AB$

Find the coordinates of point C.

(..... , ...)

(Total for Question 10 is 3 marks)

TOTAL FOR PAPER IS 32 MARKS