Please check the examination details below before entering your candidate information

Candidate surname	Other names

Centre Number | Candidate Number

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

Wednesday 4 June 2025

Morning (Time: 1 hour 30 minutes)

Paper reference **1MA1/2F**

Mathematics

PAPER 2 (Calculator)
Foundation 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.
- If pencil is used for diagrams/sketches/graphs it must be dark (HB or B).
- **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.**
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Information

- The total mark for this paper is 80
- 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.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ▶

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Y:1/1/1/1/1/1/

P 7 6 4 0 4 A 0 1 2 4

Pearson

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Change 3 weeks into days.

..... days

(Total for Question 1 is 1 mark)

2 Simplify $2 \times 3n$

.....

(Total for Question 2 is 1 mark)

3 Write 0.7 as a percentage.

.....%

(Total for Question 3 is 1 mark)

4 Here are some temperatures in °C.

–3 5 –6 7 2

Write the temperatures in order.
Start with the lowest temperature.

.....

(Total for Question 4 is 1 mark)

5 Write down a sensible metric unit that could be used to measure

(i) the height of a mountain

.....

(1)

(ii) the weight of a button.

.....

(1)

(Total for Question 5 is 2 marks)

6 Four numbers add up to 76

One of the numbers is 13
The other three numbers are each the same number.

Work out the value of each of the other three numbers.

.....

(Total for Question 6 is 3 marks)

7 Here is a rule to work out the cost of buying a number of floorboards.

Cost = £55 × number of floorboards

Toby buys a number of floorboards.
The cost is £330

Work out the number of floorboards Toby buys.

.....

(Total for Question 7 is 2 marks)

8 Here is a list of numbers.

7 14 6 6 8 5 6 10 11 14

(a) Find the mode.

.....

(1)

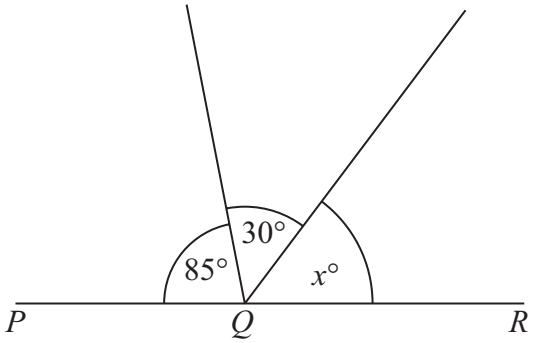
(b) Work out the range.

.....

(2)

(Total for Question 8 is 3 marks)

9



PQR is a straight line.

(i) Work out the value of x.

$x =$ .....

(2)

(ii) Give a reason for your answer.

.....

.....

.....

(1)

(Total for Question 9 is 3 marks)

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10 20% of cars sold last year were electric cars.

Write down the ratio of

the number of electric cars sold last year to the number of non-electric cars sold last year.

Give your ratio in its simplest form.

.....

(Total for Question 10 is 2 marks)

11 Jamie drives his van for 150 minutes.
He stops for a rest.

Jamie then drives for a further 75 minutes.

(a) Show that Jamie drives for less than 4 hours in total.

(2)

A car travels for 2 hours at a steady speed of 65 mph.

(b) Work out the distance the car travels.

..... miles

(2)

(Total for Question 11 is 4 marks)

12 A factory makes mountain bikes and road bikes.
Each bike has disc brakes or rim brakes or caliper brakes.

In June the factory makes a total of 240 bikes.

102 of the bikes are mountain bikes.
75 of the 110 bikes with disc brakes are mountain bikes.
105 bikes have rim brakes.
20 of the mountain bikes have caliper brakes.

Use this information to complete the two-way table.

	disc brakes	**rim brakes**	**caliper brakes**	**Total**
mountain bikes				
road bikes				
Total				

(Total for Question 12 is 3 marks)

13 (a) Simplify $n \times n \times n$

.....

(1)

(b) Solve $5k - 4 = 26$

$k =$ .....

(2)

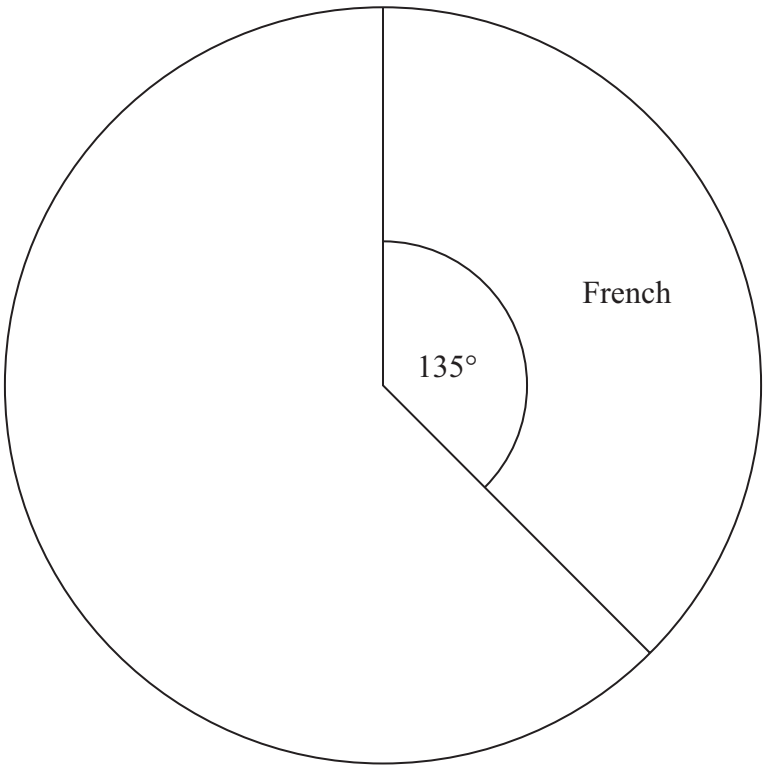
(Total for Question 13 is 3 marks)

14 120 students in Year 10 each choose one language to study.

The table below shows information about their choices.

Language	Number of students
French	45
Mandarin	20
Spanish	55

(a) Complete the accurate pie chart to show this information.



(3)

In another pie chart the number of students in Year 11 studying French is represented by an angle of 150°

Navi says,

"This means that French was chosen by more students in Year 11 than by students in Year 10"

(b) Is Navi correct?
Explain why you think this.

.....

.....

.....

(1)

(Total for Question 14 is 4 marks)

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15 There are 20 buttons in a box.

There are

6 blue buttons
9 green buttons
5 red buttons.

Jai puts 12 more buttons in the box.
These buttons are either blue buttons or red buttons.

Jai is going to pick at random one button from the box.

The probability that this button will be blue is $\frac{1}{4}$

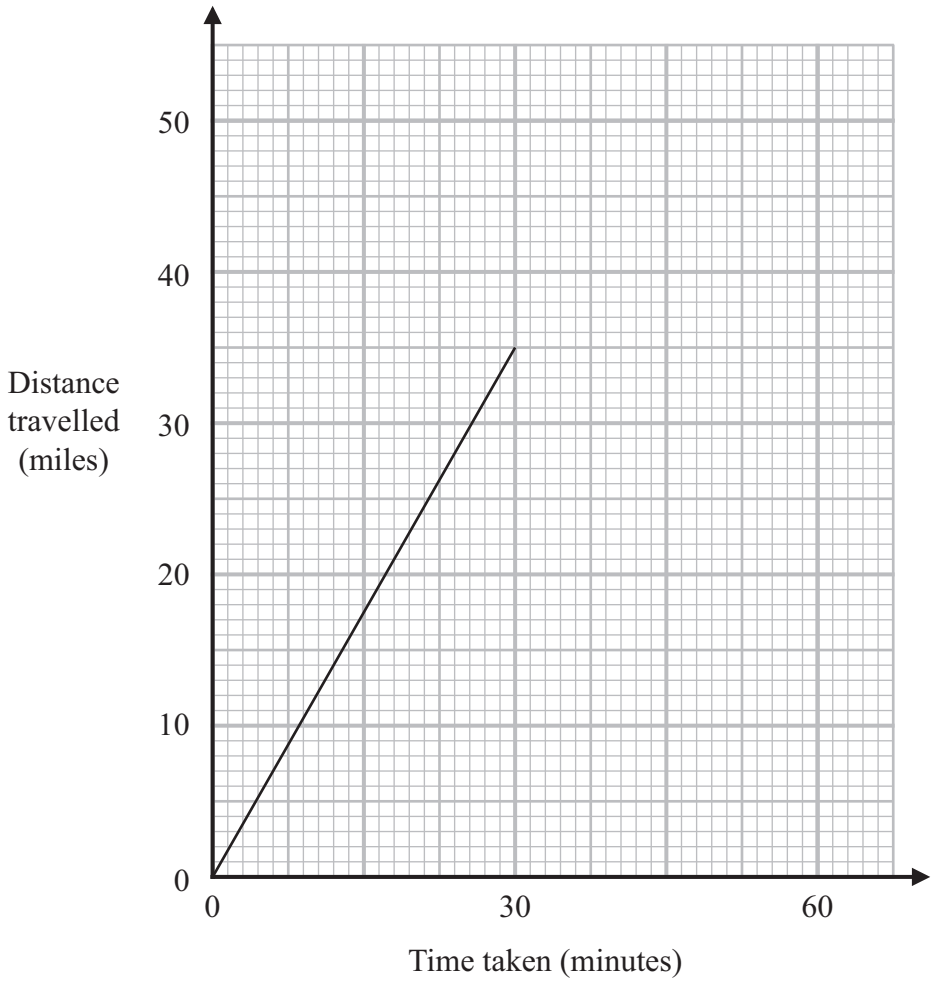
How many more red buttons did Jai put in the box?
You must show all your working.

.....

(Total for Question 15 is 4 marks)

16 A train travels from Derby to Sheffield.

The travel graph shows information about the train's journey.



(a) Work out the speed of the train.
Give your answer in miles per hour.

..... miles per hour
(2)

The train stays at Sheffield for 15 minutes.

(b) Show this information on the travel graph.

(1)

(Total for Question 16 is 3 marks)

17 A village hall needs a new heating system.
The cost of the heating system is £9000

A community grant will pay 85% of this cost.
The village council will pay the rest of the cost.

Work out how much the village council will pay.

£.....

(Total for Question 17 is 3 marks)

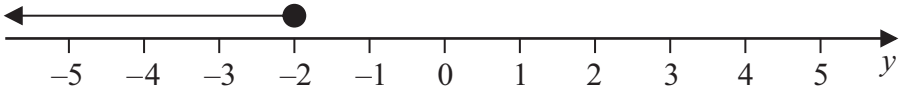
18 A cube has a volume of 512 cm^3

Work out the surface area of the cube.

..... cm^2

(Total for Question 18 is 3 marks)

19 Here is an inequality in y shown on a number line.

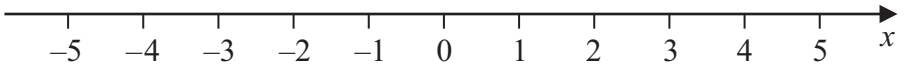


(a) Write down the largest possible integer value for y.

.....

(1)

(b) On the number line below, show the inequality $-4 \leqslant x < 2$



(2)

(Total for Question 19 is 3 marks)

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20 (a) Express 250 as a product of its prime factors.

.....

(2)

(b) Find the lowest common multiple (LCM) of 30 and 25

.....

(2)

(Total for Question 20 is 4 marks)

21 Sid, Tam and Musa share £6900 in the ratio 2 : 3 : 5

Work out how much money each person receives.

Sid £.....

Tam £.....

Musa £.....

(Total for Question 21 is 3 marks)

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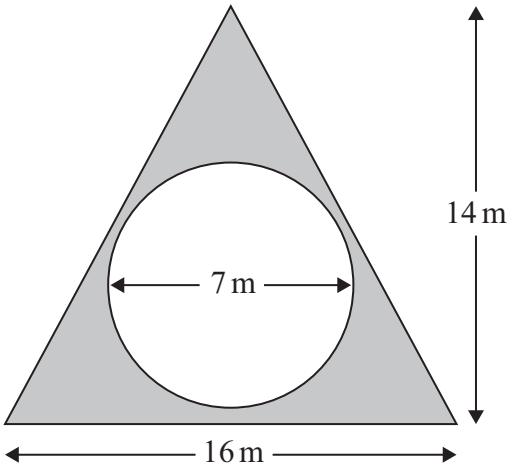
22 Here is a plan of part of Macsen's garden.

There is a circle inside a triangle.
The circle has a diameter of 7 m.



Macsen will cover the shaded area with gravel.

Gravel is sold in bags.
Each bag of gravel covers an area of 12.5 m^2

(a) Work out the number of bags of gravel Macsen will need.

..... bags

(4)

Macsen finds that each bag of gravel only covers an area of $11\,m^2$

(b) How does this affect your answer to part (a)?

.....

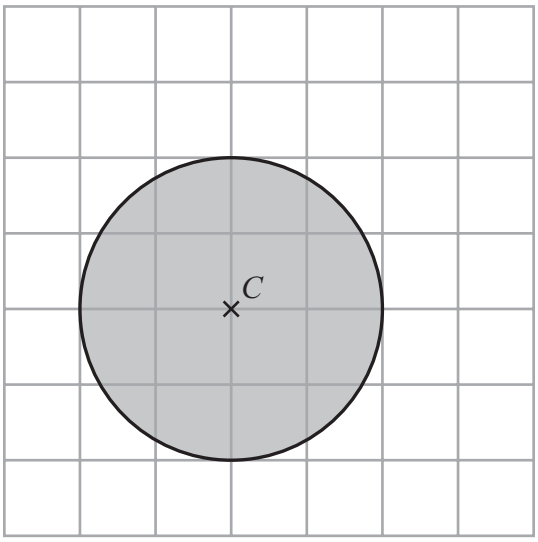
.....

.....

(1)

(Total for Question 22 is 5 marks)

23 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 23 is 1 mark)

24 This year the total weight of potatoes grown on a farm is $\frac{1}{5}$ less than last year.

This year the total weight of potatoes grown is 8000 tonnes.

Work out the total weight of potatoes grown last year.

..... tonnes

(Total for Question 24 is 3 marks)

25 Here are two lists of numbers.

List **A** 276 400 157 139

List **B** 530 500 270 x 440 320

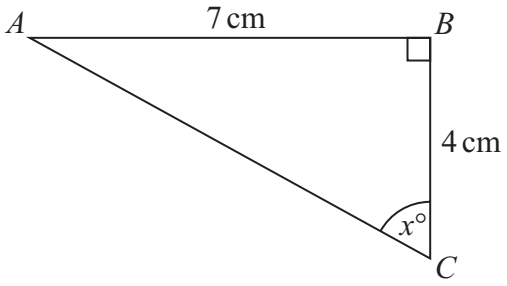
mean of list **A** : mean of list **B** = 3 : 5

Work out the value of x.

$x =$ .....

(Total for Question 25 is 5 marks)

26 *ABC* is a right-angled triangle.



Calculate the value of x.
Give your answer correct to 1 decimal place.

$x =$ .....

(Total for Question 26 is 2 marks)

27 Metal rods are made from steel with density 8 g/cm^3
Each metal rod has a volume of 1500 cm^3

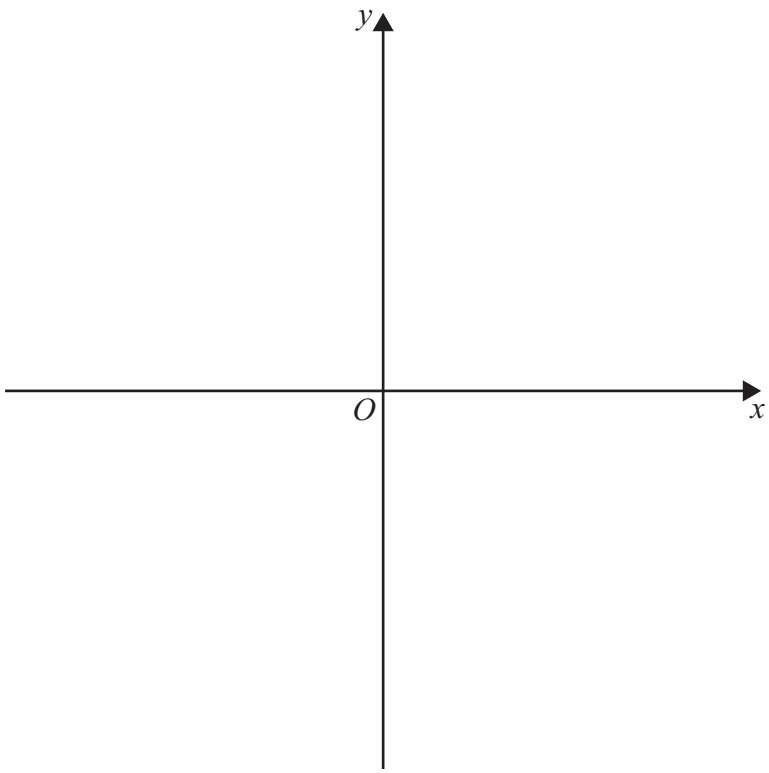
The maximum mass of metal rods that can be put on a trolley is 300 kg.

Work out the greatest number of metal rods that can be put on the trolley.

.....

(Total for Question 27 is 3 marks)

28 Sketch the graph of $y = x^2 + 2$



(Total for Question 28 is 2 marks)

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29 The first three terms of a Fibonacci sequence are

$a \qquad 3a \qquad 4a$

The 5th term of this sequence is 286

Work out the value of a.

$a =$ .....

(Total for Question 29 is 3 marks)

TOTAL FOR PAPER IS 80 MARKS

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