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Candidate surname		Other names	
Centre Number		Candidate Number	
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Pearson Edexcel Level 1/Level 2 GCSE (9–1)


Thursday 15 May 2025

Morning (Time: 1 hour 30 minutes)	Paper reference	1MA1/1F
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Mathematics

PAPER 1 (Non-Calculator)

Foundation 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.
- 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 not be used.**

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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Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1 Simplify $e + e + e + e + e$

(Total for Question 1 is 1 mark)

- 2 Write $\frac{3}{4}$ as a decimal.

(Total for Question 2 is 1 mark)

- 3 Change 60 millimetres into centimetres.

..... centimetres

(Total for Question 3 is 1 mark)

- 4 Write down a multiple of 8 that is between 25 and 35

(Total for Question 4 is 1 mark)

- 5 Angle A is 53°

What type of angle is angle A ?

(Total for Question 5 is 1 mark)



- 6 Samina works in a shop that sells pens.

The table shows the number of blue pens and the number of red pens Samina sold in each of three months.

Month	Blue pens	Red pens
April	33	20
May	40	14
June	27	15

- (a) Work out the total number of blue pens and red pens Samina sold in June.

.....
(1)

Samina says,

“In these three months, in total, I sold more than twice as many blue pens as red pens.”

- (b) Is Samina correct?
You must show how you get your answer.

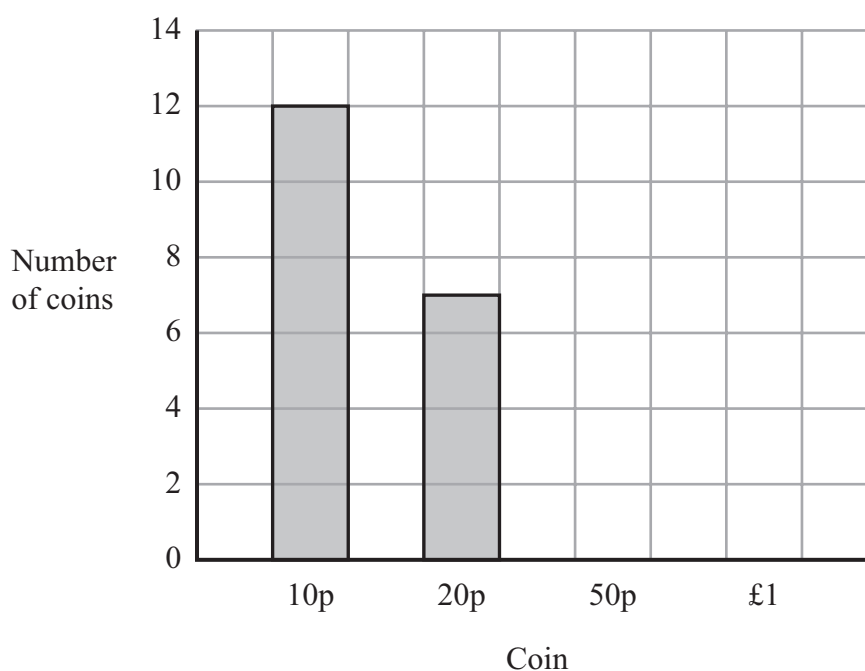
(3)

(Total for Question 6 is 4 marks)



- 7 There are only 10p coins, 20p coins, 50p coins and £1 coins in a bag.

The bar chart shows information about the number of 10p coins and the number of 20p coins in the bag.



There are eight 50p coins in the bag.

There are three £1 coins in the bag.

- (a) Use this information to complete the bar chart.

(2)

- (b) Show that the total amount of money in the bag is less than £10

(3)

(Total for Question 7 is 5 marks)



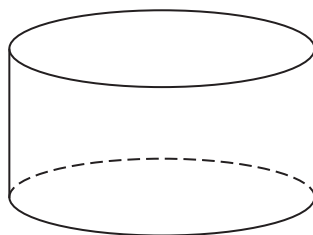
8 The diagram shows two sides of a kite.



(a) On the grid, complete the kite.

(1)

(b) What is the mathematical name of this solid shape?



(1)

(Total for Question 8 is 2 marks)

9 Greg is x years old.

Greg is 5 years older than Katy.

(a) Write down an expression, in terms of x , for Katy's age.

.....
(1)

Carl is twice as old as Greg.

(b) Write down an expression, in terms of x , for Carl's age.

.....
(1)

(c) Solve $4y = 12$

$y =$
(1)

(Total for Question 9 is 3 marks)



10 (a) Write 23 619 to the nearest 1000

.....
(1)

(b) Work out an estimate for the value of 5.9×98.1

.....
(2)

(Total for Question 10 is 3 marks)

11 (a) Work out $\frac{5}{8} - \frac{1}{4}$

.....
(2)

(b) Work out $\frac{2}{5}$ of 40

.....
(2)

(Total for Question 11 is 4 marks)



12 Here is part of a train timetable from Liverpool to Birmingham.

Liverpool	08 07	08 47	09 07
Runcorn	08 25	09 03	09 26
Crewe	08 53	09 22	09 55
Stafford	09 11	09 51	10 14
Wolverhampton	09 30	—	10 31
Birmingham	09 50	10 34	10 50

- (a) Which train should take the least time to go from Liverpool to Crewe?
You must show how you get your answer.

(3)

Rose gets to the station in Wolverhampton at 09 25
She wants to catch the next train to Birmingham.

This train is delayed by 35 minutes.

- (b) How many minutes does Rose have to wait for the train?

..... minutes

(2)

(Total for Question 12 is 5 marks)



13 Here is a number machine.



(a) Find the output when the input is 6

.....
(1)

(b) Find the input when the output is -11

.....
(2)

(Total for Question 13 is 3 marks)

14 A road has a length of 1.6 kilometres.

The road is shown on a map with a scale of 1 : 20 000

Work out the length, in centimetres, of this road on the map.

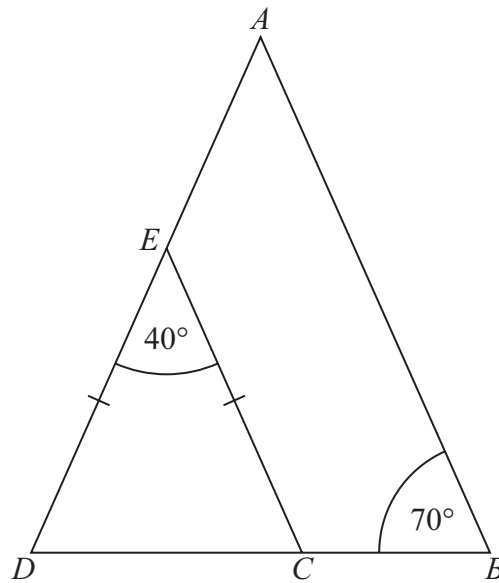
..... centimetres

(Total for Question 14 is 3 marks)

15 Work out 1.35×48

(Total for Question 15 is 3 marks)





AED and BCD are straight lines.

$ED = EC$

Show that EC is parallel to AB .

Give a reason for each stage of your working.

(Total for Question 16 is 4 marks)

17 Sam wants to use this recipe to make 15 pancakes.

Ingredients for 10 pancakes

100 g flour
200 ml milk
40 g butter
2 eggs

Sam has

200 g flour
250 ml milk
70 g butter
5 eggs

Does Sam have enough flour, enough milk, enough butter and enough eggs to make 15 pancakes?

You must show all your working.

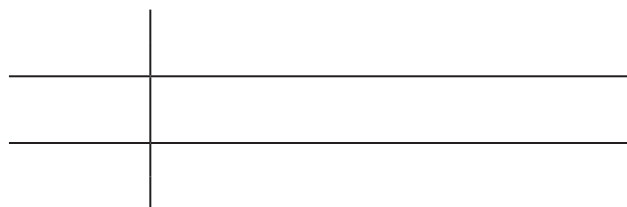
(Total for Question 17 is 3 marks)



18 Here are the heights, in cm, of 12 children.

146 135 142 150 138 149
152 146 137 154 147 144

Show this information in a stem and leaf diagram.



Key:

(Total for Question 18 is 3 marks)

19 Find the highest common factor (HCF) of 54 and 120

(Total for Question 19 is 2 marks)



20 There are only red counters, white counters, blue counters and green counters in a bag.

Chris is going to take at random a counter from the bag.

The table shows the probability that he will take a red counter and the probability that he will take a white counter.

Colour	red	white	blue	green
Probability	0.3	0.1		

There are twice as many blue counters as there are green counters in the bag.

(a) Work out the probability that Chris will take a blue counter.

.....
(3)

There are 45 red counters in the bag.

(b) Work out the total number of counters in the bag.

.....
(2)

(Total for Question 20 is 5 marks)

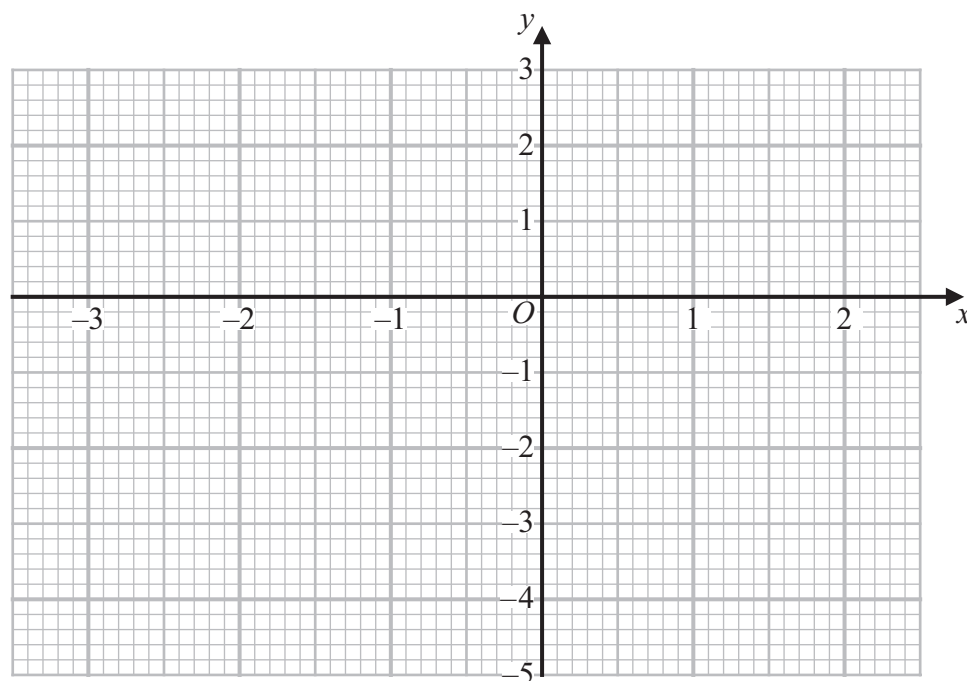


21 (a) Complete the table of values for $y = x^2 + x - 4$

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 21 is 5 marks)

22 There are 280 chocolates in a box.

There are only dark chocolates, milk chocolates and white chocolates.

$\frac{1}{7}$ of the 280 chocolates are dark chocolates.

The number of milk chocolates : the number of white chocolates = 1 : 3

The number of white chocolates : the number of dark chocolates = n : 1

(a) Work out the value of n .

You must show all your working.

$n = \dots\dots\dots$
(5)

10 milk chocolates from the box are eaten.

(b) Does this affect your answer to part (a)?

Give a reason for your answer.

(1)

(Total for Question 22 is 6 marks)



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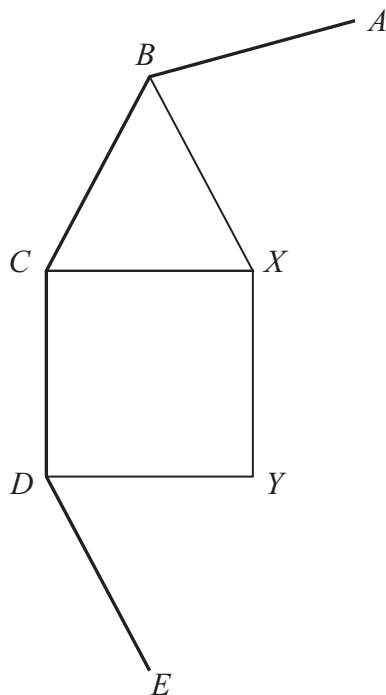
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- 23 Work out $5.7 \times 10^2 + 9.8 \times 10^3$
Give your answer in standard form.

(Total for Question 23 is 3 marks)



24 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.

$n = \dots\dots\dots$

(Total for Question 24 is 4 marks)

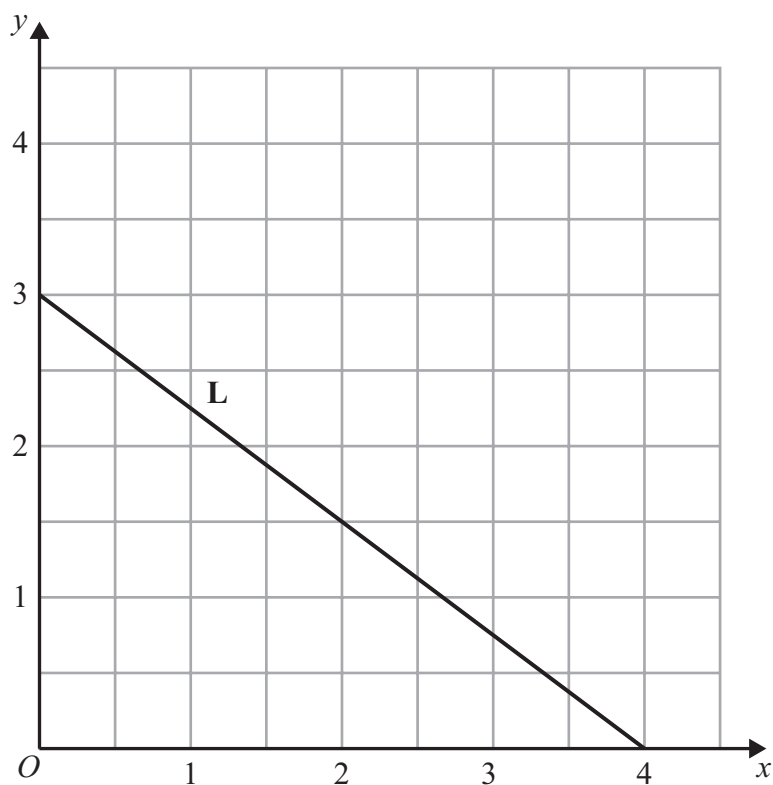


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25 The straight line **L** is shown on the grid.



Find an equation for **L**.

Give your answer in the form $y = mx + c$

(Total for Question 25 is 3 marks)

Turn over for Question 26



26 $\mathbf{c} = \begin{pmatrix} 7 \\ 4 \end{pmatrix}$ $\mathbf{d} = \begin{pmatrix} 2 \\ -1 \end{pmatrix}$

Work out $2\mathbf{c} + 3\mathbf{d}$

Give your answer as a column vector.

(Total for Question 26 is 2 marks)

TOTAL FOR PAPER IS 80 MARKS

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