Please check the examination details below before entering your candidate information

Candidate surname	Other names

Centre Number	Candidate Number

Predicted Paper 1

Time: (1 hour 30 minutes)

Mathematics

Paper 1 (Non-Calculator)
Foundation Tier

15th May 2025

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, center number and candidate number.
- Answer all questions.
- Answer the questions in the spaces provided – there may be more space than you need.
- There are 80 marks. You have 1 hour and 30 minutes!
- You must show all your working.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- Calculators may not be used.

FOR MORE MATHSWITHDAN RESOURCES, SCAN THE QR CODES:

Hello there! I hope your revision is going splendidly.
Welcome to my Predicted Paper 1 for GCSE Maths Foundation Summer 2025!
My name is Dan, I am a full time GCSE and A Level Maths tutor with a First-Class degree In BSc Mathematics.

In addition to my tutoring sessions, I run a YouTube channel where I offer detailed walkthroughs of past GCSE and A-Level Maths papers. I am also on TikTok and Instagram, where I go through quick-fire questions to help students stay sharp, whether they're scrolling late at night or on their way to school!

This paper includes a variety of questions gathered from past exam papers (all publicly available) and questions created by me! I've uploaded a full video walkthrough for this paper on my YouTube channel – it's a great way to check your answers and understand the methods. You can access it by scanning the QR code below or in the top right corner of each page! Do the paper FIRST before watching the video!

DISCLAIMER:

There is no guarantee the topics in this paper will come up. Use this paper as extra practice alongside comprehensive revision. Good luck!!!

SCAN THE QR CODE FOR THE ENTIRE WALKTHROUGH

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Write the number 4865 correct to the nearest hundred.

.....

(Total for Question 1 is 1 mark)

2 Write 0.62 as a percentage.

.....%

(Total for Question 2 is 1 mark)

3 Write the following numbers in order of size.

Start with the smallest number.

0.4 0.408 0.5 0.43 0.75

.....

(Total for Question 3 is 1 mark)

4 Write 417 correct to the nearest ten.

.....

(Total for Question 4 is 1 mark)

5 Write 20% as a fraction in its simplest form.

.....

(Total for Question 5 is 1 mark)

6 (a) Simplify $5 \times 2n$

.....

(1)

(b) Simplify $6b - 2b + 5b$

.....

(1)

(Total for Question 6 is 2 marks)

7 Write the following fractions in order of size.
Start with the smallest fraction.

$$\frac{1}{2} \qquad \frac{5}{6} \qquad \frac{4}{12} \qquad \frac{2}{3} \qquad \frac{1}{4}$$

.....

(Total for Question 7 is 1 mark)

8 Ali buys

2 bottles of juice costing £1.20 for each bottle
1 packet of crisps costing £1.40
4 chocolate bars

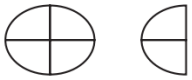
Ali pays with a £10 note.
He gets £1.00 change.

Ali works out that one chocolate bar costs £1.10.

Is Ali right?
You must show how you get your answer.

(Total for Question 8 is 3 marks)

9 The incomplete pictogram shows information about the number of apples sold from a market stall on Monday.

Monday	
Tuesday	
Wednesday	

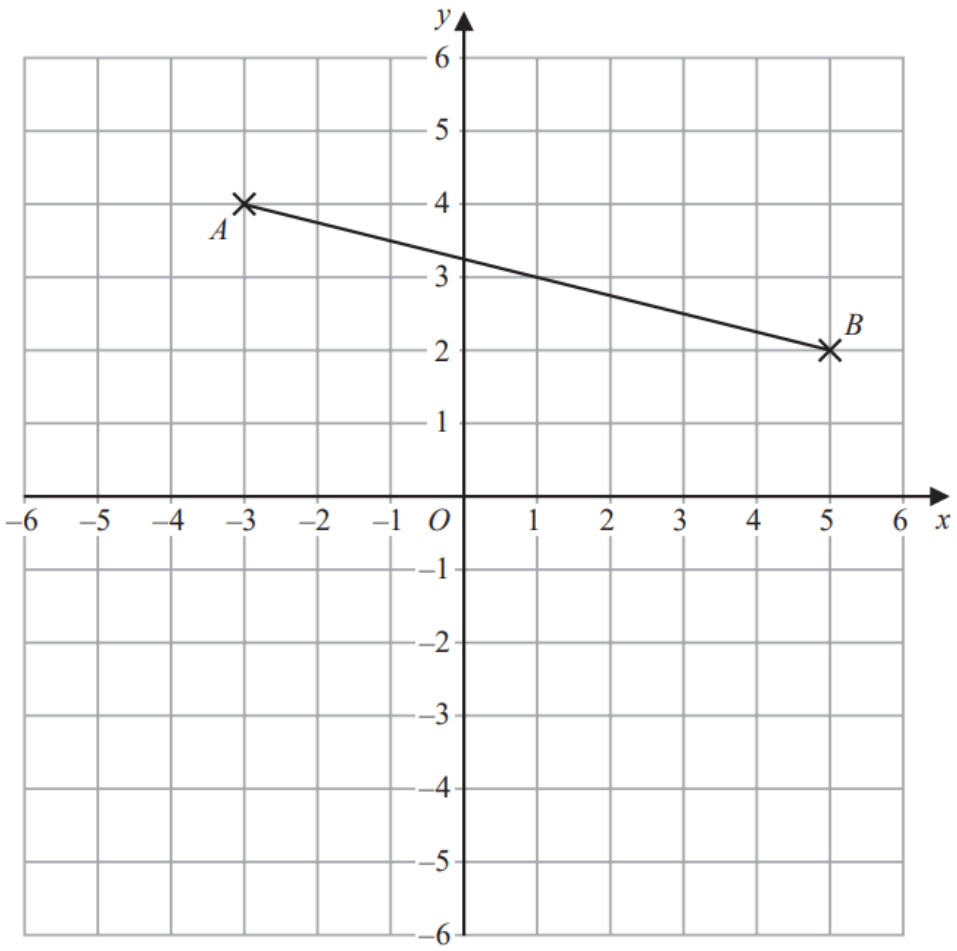
Key:

On Monday the stall sold 12 apples.
On Tuesday the stall sold 16 apples.
On Wednesday the stall sold 18 apples.

Use this information to complete the pictogram and the key.

(Total for Question 9 is 4 marks)

10



(a) Write down the coordinates of the point *A*.

(..... , ...)

(1)

(b) Plot the point with coordinate (-2,-3)
Label this point *C*.

(1)

(c) Find the difference in *x*-coordinates between *A* and *B*.

.....

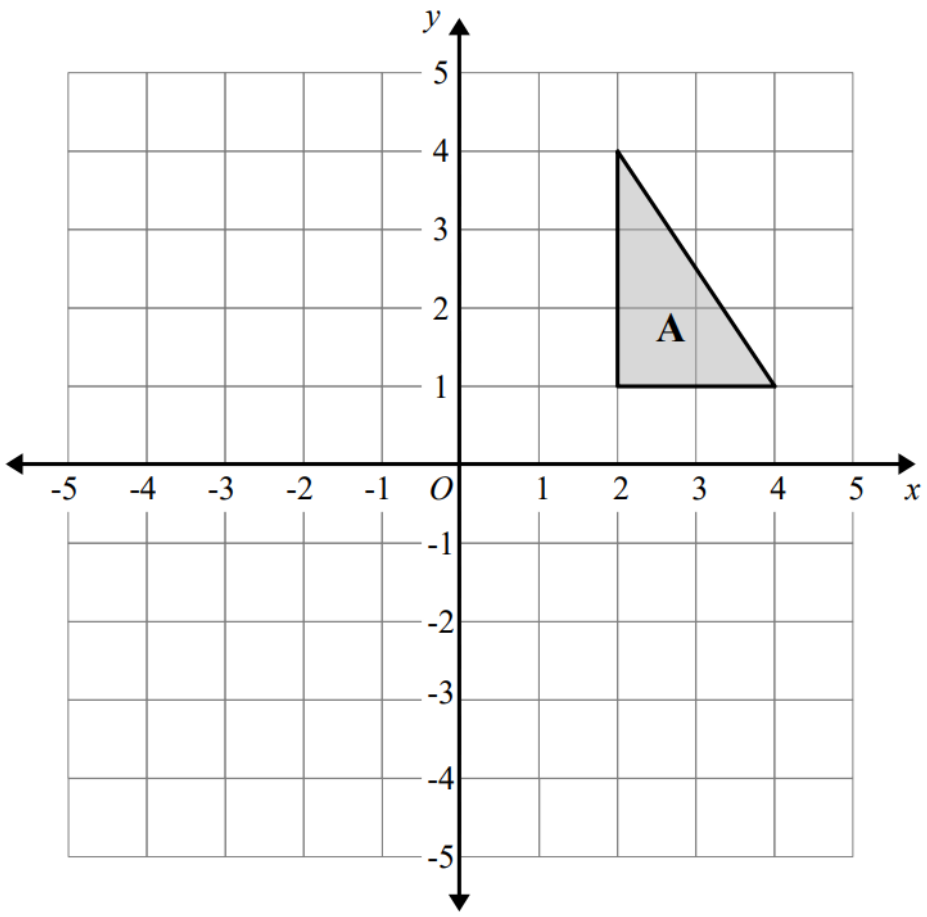
(1)

(d) Draw the line with equation $x = -5$

(1)

(Total for Question 10 is 4 marks)

11



Reflect Triangle A in the x-axis.

(Total for Question 11 is 2 marks)

12 The diagram shows a number machine.

(a) Find output when the input is 5

.....

(1)

(b) Find the input when the output is 28

.....

(2)

(Total for Question 12 is 3 marks)

13 4 kg of apples cost £3.20
3 kg of apples and 4 kg of bananas cost a total of £5.00

Work out the total cost of 2 kg of apples and 3 kg of bananas.
You must show all your working.

£.....

(Total for Question 13 is 4 marks)

14 $P = 3x + 5y$

$x = 4$
$y = -1$

(a) Work out the value of P.

.....

(2)

(b) Expand $2g(g + 6)$

.....

(2)

(c) Solve $4(n - 3) = 28$

$n =$ .....

(2)

(Total for Question 14 is 6 marks)

15 (a) Work out 4.36×2.5

.....

(3)

(b) Work out $48.96 \div 1.2$

.....

(3)

(Total for Question 15 is 6 marks)

16 Jacob wants to make some biscuits using this recipe.

Makes 10 biscuits
100 g butter 160 g flour 40 g sugar

Jacob thinks he has,

300 g butter
600 g flour
160 g sugar

Assuming that these weights are correct,

(a) Work out the greatest number of biscuits Jacob can make.
You must show all your working.

.....

(4)

Jacob is wrong.

He has more than 160 g of sugar.

(b) Does this affect the greatest number of biscuits Jacob can make?
Give a reason for your answer.

.....

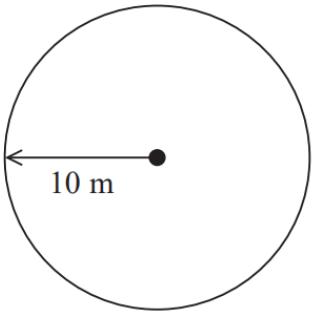
.....

.....

(1)

(Total for Question 16 is 5 marks)

17 James has a garden in the shape of a circle of radius 10 m.
He is going to cover the garden with grass seed to make a lawn.



Grass seed is sold in boxes.
Each box of grass seed will cover 47 m² of garden.

James wants to cover all the garden with grass seed.

(a) Work out an estimate for the number of boxes of grass seed James needs.
You must show your working.

.....

(4)

(b) Is your estimate for part (a) an underestimate or an overestimate?
Give a reason for your answer.

.....

.....

.....

.....

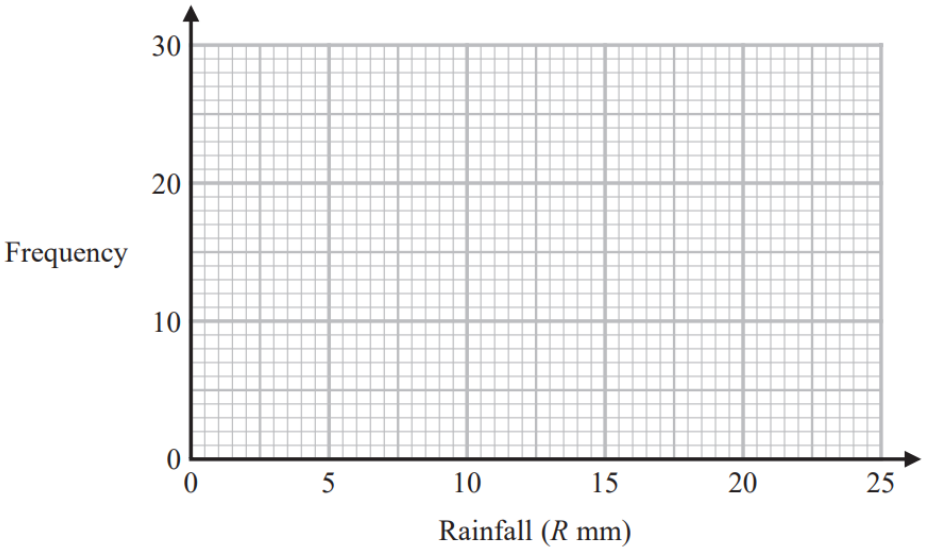
(1)

(Total for Question 17 is 5 marks)

18 The table shows information about the daily rainfall in a town for 60 days.

Rainfall (R mm)	Frequency
$0 \leqslant R < 5$	15
$5 \leqslant R < 10$	12
$10 \leqslant R < 15$	18
$15 \leqslant R < 20$	9
$20 \leqslant R < 25$	6

Draw a frequency polygon for this information.



(Total for Question 18 is 2 marks)

19 The first five terms of an arithmetic sequence are

2 5 8 11 14

Write down an expression, in terms of n, for the nth term of this sequence.

.....

(Total for Question 19 is 2 marks)

---

20 (a) Work out $3\frac{2}{5} + 1\frac{3}{8}$

.....

(2)

(b) Work out $2\frac{1}{3} \div \frac{5}{6}$

Give your answer as a mixed number in its simplest form.

.....

(2)

(Total for Question 20 is 4 marks)

21 Find the highest common factor (HCF) of 124 and 186.

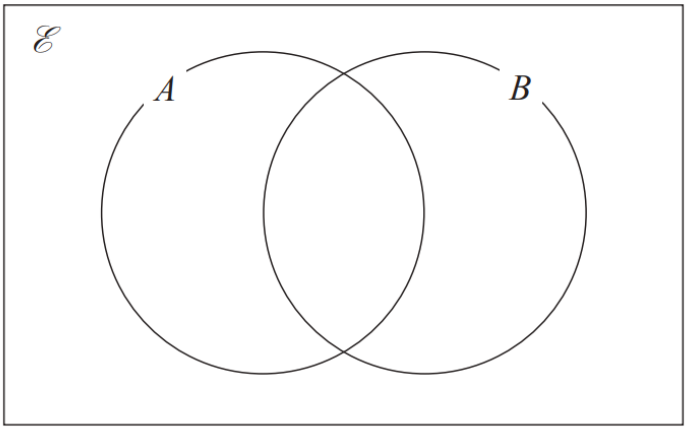
(Total for Question 21 is 2 marks)

22 $\mathscr{E}$ = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,12}

A = {multiples of 3}

B = {prime numbers}

(a) Complete the Venn diagram for this information.



(3)

A number is chosen at random from the universal set, $\mathscr{E}$

(b) Find the probability that this number is in the set A ∪ B

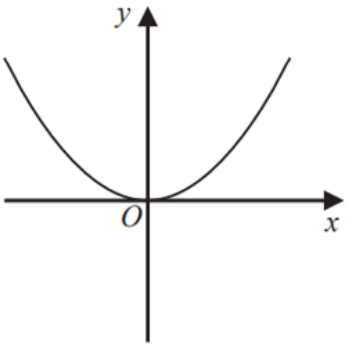
.....

(2)

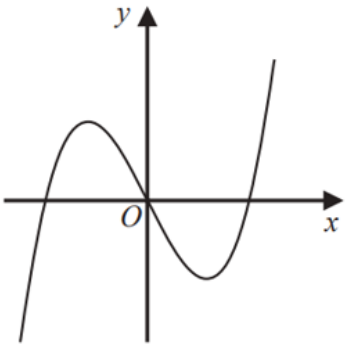
(Total for Question 22 is 5 marks)

23 Here are six graphs.

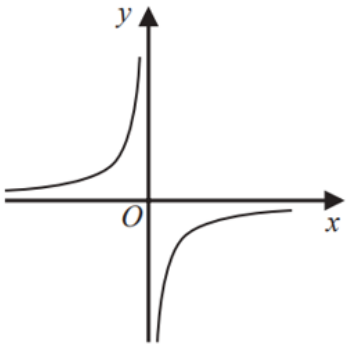
A



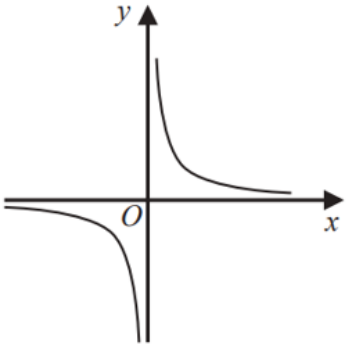
B



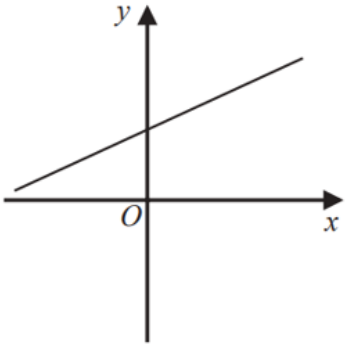
C



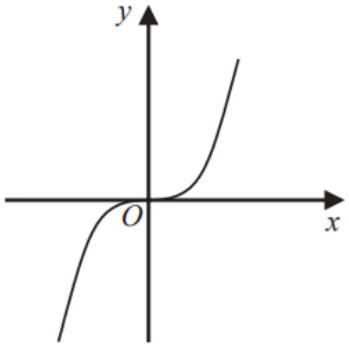
D



E



F



Write down the letter of the graph that could have the equation

(a) $y = x^2$

.....

(1)

(b) $y = 2x + 1$

.....

(1)

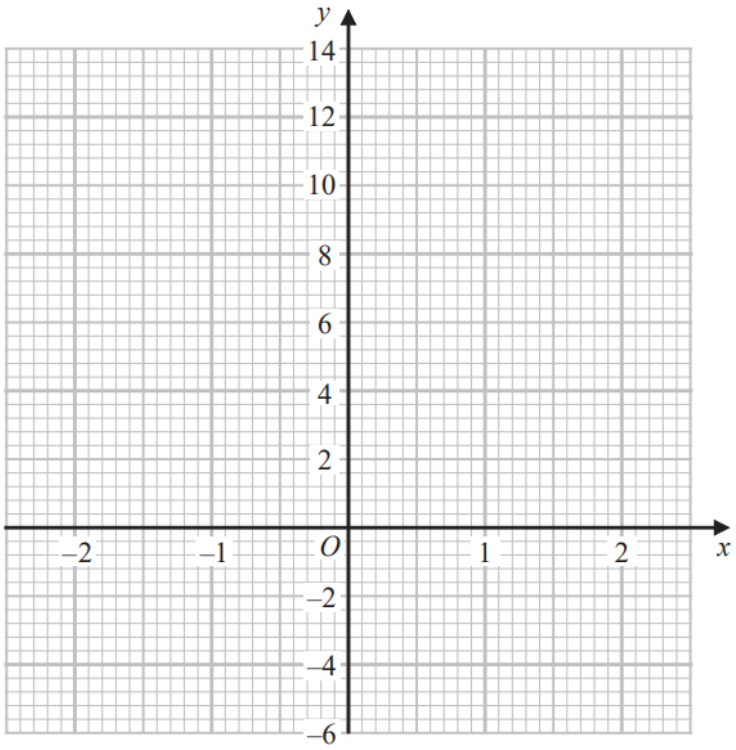
(Total for Question 23 is 2 marks)

24 (a) Complete the table of values for $y = x^3 + 5$

x	–2	–1	0	1	2
y		4			

(2)

(b) On the grid below, draw the graph of $y = x^3 + 5$ for values of x from –2 to 2



(2)

(Total for Question 24 is 4 marks)

25 Work out the value of $\frac{3^{-6} \times 3^{10}}{3}$

.....

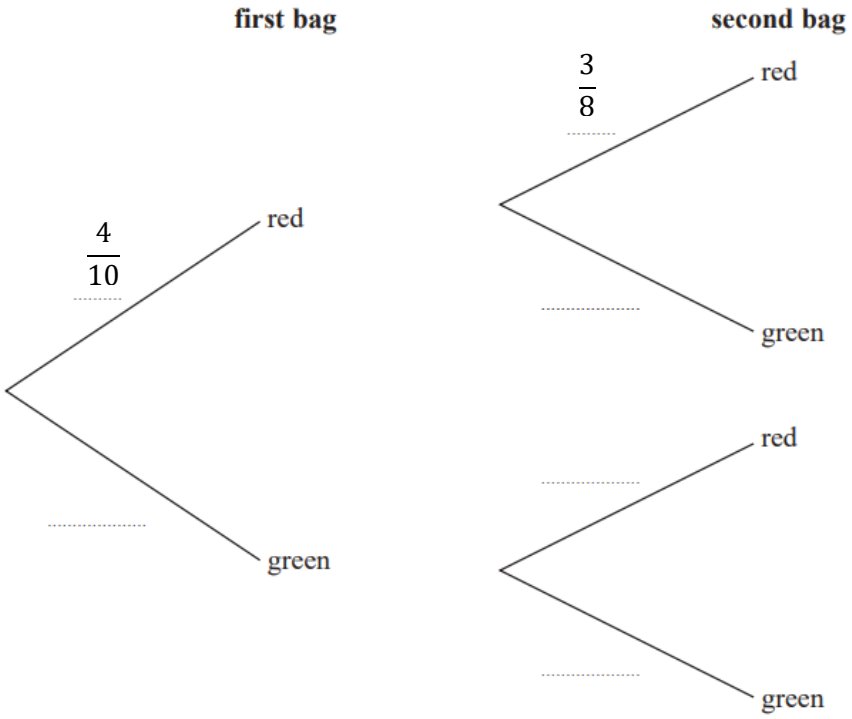
(Total for Question 25 is 2 marks)

26 Gabriella has two bags.

In the first bag there are 4 red balls and 6 green balls.
In the second bag there are 3 red balls and 5 green balls.

Gabriella takes at random a ball from the first bag.
She then takes at random a ball from the second bag.

(a) Complete the probability tree diagram.



(2)

(b) Work out the probability that Gabriella takes two red balls.

.....

(2)

(Total for Question 26 is 4 marks)

27 Solve $x^2 - x - 72 = 0$

.....

(Total for Question 27 is 3 marks)

TOTAL FOR PAPER IS 80 MARKS

Scan here:

Congratulations on completing the paper! I hope it has helped you with your revision.

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Buy Me a Coffee

Take care!