

Please check the examination details below before entering your candidate information

Candidate surname					Other names				
Centre Number					Candidate Number				
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Pearson Edexcel International GCSE

Thursday 14 May 2026

Morning (Time: 2 hours)

Paper reference **4MA1/1F**

Mathematics A

PAPER 1F

Foundation Tier



You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. 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.
- Without sufficient working, correct answers may be awarded no marks.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- **Calculators may be used.**
- You must **NOT** write anything on the formulae page.
- Anything you write on the formulae page will gain NO credit.

Information

- The total mark for this paper is 100.
- 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.
- Check your answers if you have time at the end.

Turn over ►

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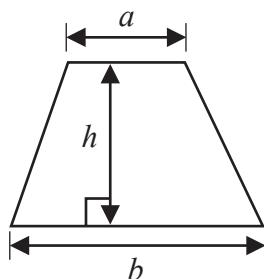
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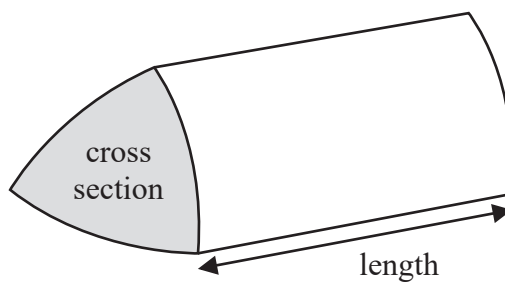
International GCSE Mathematics

Formulae sheet – Foundation Tier

$$\text{Area of trapezium} = \frac{1}{2}(a + b)h$$

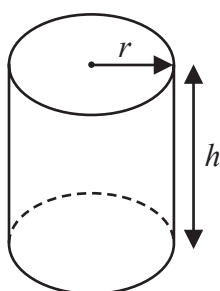


$$\text{Volume of prism} = \text{area of cross section} \times \text{length}$$



$$\text{Volume of cylinder} = \pi r^2 h$$

$$\text{Curved surface area of cylinder} = 2\pi r h$$



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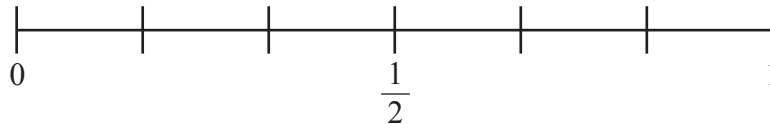
Answer ALL TWENTY EIGHT questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Sandra throws a fair 6-sided dice once.

- (a) On the probability scale, mark with a cross (×) the probability that the dice lands on 6



(1)

Sandra says

“the dice is certain to land on a number less than 7”

- (b) Explain why Sandra is correct.

(1)

(Total for Question 1 is 2 marks)



2 The table shows the temperature at midday in each of four cities one day in January.

City	Temperature (°C)
Madrid	1
Beijing	−8
New York	−4
Paris	3

(a) Which of these cities had the lowest midday temperature?

.....
(1)

(b) Which of these cities had a midday temperature 5°C higher than the temperature in New York?

.....
(1)

(Total for Question 2 is 2 marks)

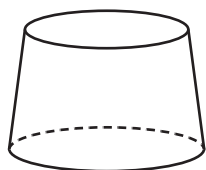
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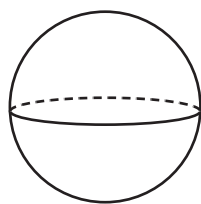
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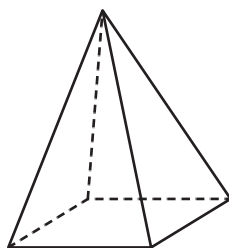
3 Here are four 3-D shapes.



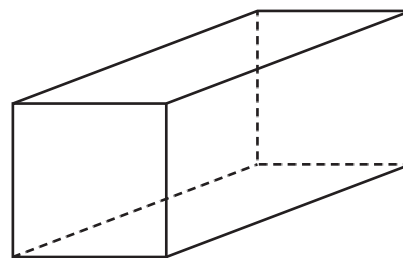
A



B



C



D

One of these four shapes is a prism.

(a) Write down the letter of the prism.

.....
(1)

(b) Write down the mathematical name of shape **B**

.....
(1)

(c) Write down the number of edges of shape **C**

.....
(1)

(Total for Question 3 is 3 marks)



4 (a) Write in words the number 32 060

(1)

(b) Write in figures the number two hundred and four thousand, five hundred and twelve.

(1)

(c) Write the number 9547 correct to the nearest hundred.

(1)

(d) Place a tick (✓) in the box that describes the value of the 8 in the number 1.487

8 hundreds	8 tens	8 tenths	8 hundredths	8 thousandths

(1)

(e) Write these numbers in order of size.
Start with the smallest number.

3.6 3.006 3.61 3.601 3.06

(1)

(Total for Question 4 is 5 marks)



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5 (a) Simplify $d + d + d + d + d$

.....
(1)

(b) Simplify $3m - m + 8m$

.....
(1)

(c) Simplify $6 \times 3y$

.....
(1)

(d) Solve $15 - a = 9$

$a =$
(1)

(Total for Question 5 is 4 marks)



P 8 1 0 6 1 A 0 7 2 8

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6 Amy asks people what their favourite type of pet is.

The table gives information about the number of people who said cat and the number of people who said fish.
The pictogram gives information about the number of people who said dog and the number of people who said rabbit.

Pet	Frequency
dog	
cat	12
rabbit	
fish	7

dog	
cat	
rabbit	
fish	

Key:  represents 4 people

- (a) Use the information in the pictogram to complete the frequency table. (2)
- (b) Use the information in the frequency table to complete the pictogram. (2)

(Total for Question 6 is 4 marks)



7 Here is a quadrilateral.

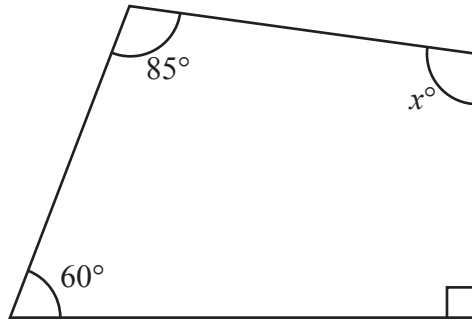


Diagram **NOT**
accurately drawn

(a) Work out the value of x

$x = \dots\dots\dots$
(2)

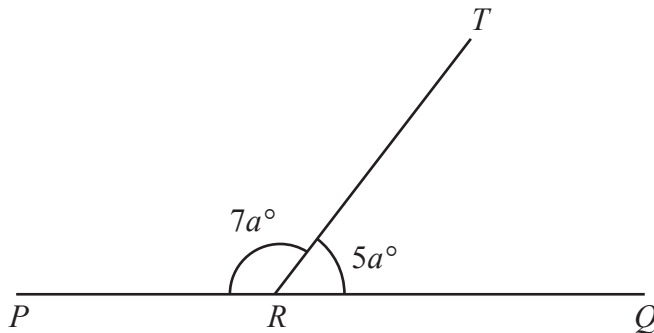


Diagram **NOT**
accurately drawn

PRQ is a straight line.

(b) Work out the value of a

$a = \dots\dots\dots$
(2)

(Total for Question 7 is 4 marks)



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8 (a) Write 75 as a fraction of 125
Give your fraction in its simplest form.

.....
(1)

(b) Write $\frac{21}{105}$ as a percentage.

..... %
(1)

(c) Write 4% as a decimal.

.....
(1)

(Total for Question 8 is 3 marks)



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- 9 (a) Write down a prime number between 30 and 40

.....
(1)

- (b) Find the value of 34^2

.....
(1)

- (c) Find the cube root of 4913

.....
(1)

- (d) Write one pair of brackets in this calculation so that the answer is correct.

$$3 + 6 \times 2 + 5 = 45$$

(1)

Here are some symbols.

+	-	×	÷
---	---	---	---

- (e) Using only symbols from the box, write one symbol on each dotted line so that the answer is correct.

$$12 \dots\dots\dots 2 \dots\dots\dots 3 = 6$$

(1)

(Total for Question 9 is 5 marks)



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10 The two-way table shows some information about the city a group of students and teachers would most like to visit from Berlin, Paris and Rome.

	Berlin	Paris	Rome	Total
students	29	25		
teachers			19	52
Total	42			140

(a) Complete the two-way table.

(3)

One of the teachers is chosen at random.

(b) Find the probability that this teacher would most like to visit Rome.

(2)

(Total for Question 10 is 5 marks)

11 (a) Use your calculator to work out the value of $\frac{12.5}{1.4} - \sqrt{10}$

Write down all the figures on your calculator display.

(2)

(b) Write your answer to part (a) correct to 2 significant figures.

(1)

(Total for Question 11 is 3 marks)



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12 Noah buys

- 3 bottles of milk at £1.45 for each bottle
- 2 boxes of eggs at £2.80 for each box
- 2 packs of butter

Noah pays with a £20 note.
He receives £6.65 change.

The cost of each pack of butter is the same.

Work out the cost of 1 pack of butter.

£.....

(Total for Question 12 is 4 marks)**13** (a) Factorise $15y - 20$

(1)

(b) Solve $5w + 2 = 3w - 7$ $w =$

(2)

(Total for Question 13 is 3 marks)

14 Farhan sells mobile phones.

Last week, the total value of the mobile phones he sold was 2600 dinar.
Farhan received 18% of this amount.

Work out how much Farhan received.

..... dinar

(Total for Question 14 is 2 marks)

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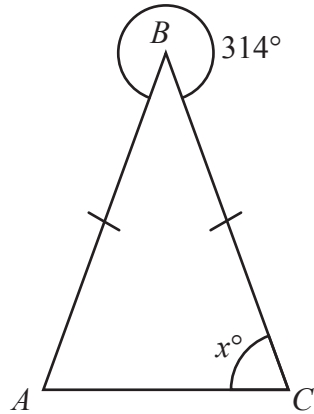


Diagram **NOT**
accurately drawn

ABC is an isosceles triangle.

$$AB = CB$$

$$\text{reflex angle } ABC = 314^\circ$$

$$\text{angle } ACB = x^\circ$$

Work out the value of x

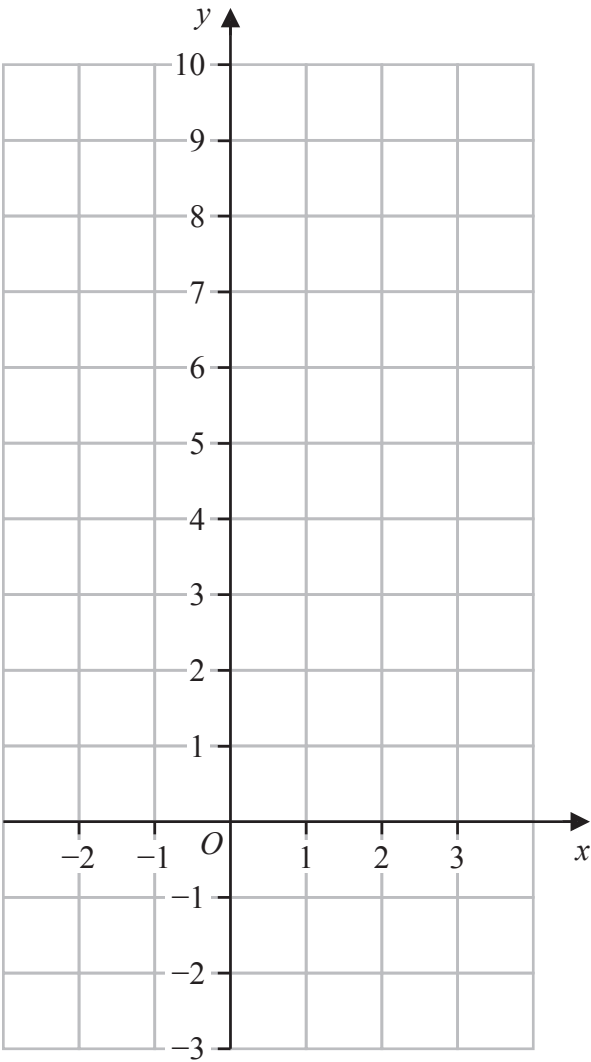
Give a reason for each stage of your working.

$$x = \dots\dots\dots$$

(Total for Question 15 is 4 marks)



16 On the grid, draw the graph of $y = 5 - 2x$ for values of x from -2 to 3



(Total for Question 16 is 3 marks)

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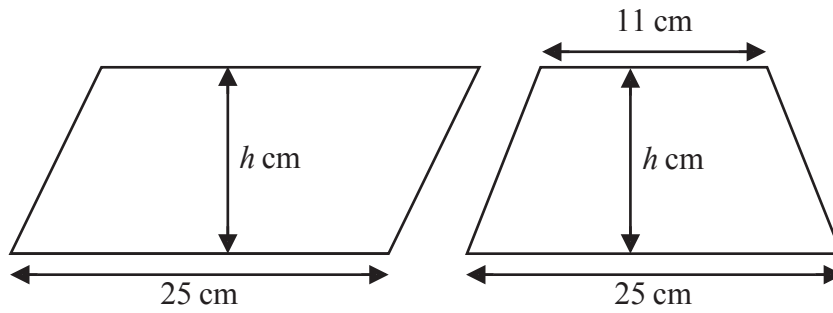
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17 The diagram shows a parallelogram and a trapezium.

Diagram **NOT**
accurately drawn



Both shapes have a base of 25 cm and a perpendicular height of h cm

The area of the parallelogram is 175 cm^2

Work out the area of the trapezium as a percentage of the area of the parallelogram.

.....%

(Total for Question 17 is 4 marks)



18 Show that $4\frac{1}{7} - 2\frac{3}{5} = 1\frac{19}{35}$

(Total for Question 18 is 3 marks)

19

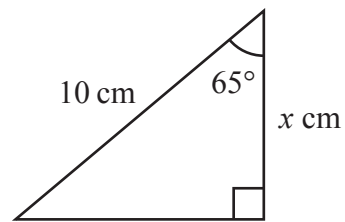


Diagram **NOT**
accurately drawn

Work out the value of x
Give your answer correct to 3 significant figures.

$x =$

(Total for Question 19 is 3 marks)



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20 $\mathcal{E} = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19\}$

$A = \{\text{factors of } 20\}$

$B = \{\text{multiples of } 5\}$

(a) List the members of the set

(i) $A \cup B$

.....
(1)

(ii) $A \cap B'$

.....
(1)

$C = \{\text{prime numbers}\}$

Ana writes down the statement $A \cap C = \emptyset$
Ana’s statement is wrong.

(b) Explain why.

.....
.....
(1)

(Total for Question 20 is 3 marks)



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21 Henri competes in a race.

For the first part of the race Henri cycles 60 km at an average speed of 24 km/h
For the remaining part of the race Henri runs for 1 hour and 15 minutes at
an average speed of 12 km/h

Work out Henri’s average speed for the whole race.
Give your answer in km/h
Show your working clearly.

..... km/h

(Total for Question 21 is 4 marks)



22 (a) Expand $4e(2e - 3)$

(1)

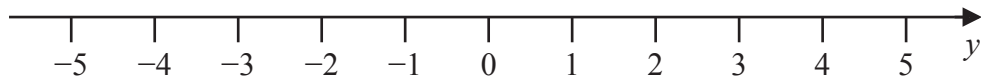
(b) Expand and simplify $(f + 3)(f - 6)$

(2)

(c) Make x the subject of $t = ax - 2n$

(2)

(d) On the number line, represent the inequality $-1 < y \leq 3$



(2)

(Total for Question 22 is 7 marks)



23 Simplify $(4x^5y^6)^3$

(Total for Question 23 is 2 marks)

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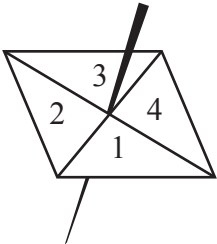


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24 Here is a biased 4-sided spinner.



The table gives information about the probability that, when the spinner is spun once, it will land on each number.

Number	1	2	3	4
Probability	0.12	x	$2x$	0.16

Nevan spins the spinner 500 times.
Work out the expected number of times that the spinner lands on an even number.

(Total for Question 24 is 4 marks)

- 25** Change a speed of 70 metres per second to a speed in kilometres per hour.
Show your working clearly.

..... km/h

(Total for Question 25 is 3 marks)

- 26** (a) Write 0.0651 in standard form.

.....
(1)

- (b) Work out $(4 \times 10^{56}) \times (8 \times 10^{74})$

Give your answer in standard form.

.....
(2)

(Total for Question 26 is 3 marks)

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27 Solve the simultaneous equations

$$4x + 3y = 9$$

$$2x - 2y = -13$$

Show clear algebraic working.

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

(Total for Question 27 is 3 marks)



- 28 The diagram shows a shaded shape $ABCDEO$ made from a semicircle BCD and two identical right-angled triangles ABO and EDO

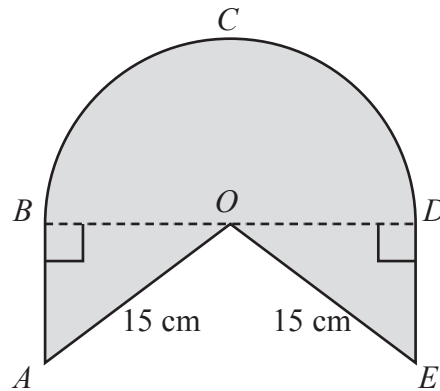


Diagram **NOT**
accurately drawn

BD is the diameter of the semicircle.
 O is the midpoint of BD

angle $ABO = \text{angle } EDO = 90^\circ$ $AO = EO = 15 \text{ cm}$

The area of semicircle BCD is 227 cm^2

Work out the perimeter of the shaded shape.

Show your working clearly.

Give your answer correct to one decimal place.

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..... cm

(Total for Question 28 is 5 marks)

TOTAL FOR PAPER IS 100 MARKS



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