Surname	Centre Number	Candidate Number
First name(s)		0

GCSE

3300U10-1

S25-3300U10-1

THURSDAY, 15 MAY 2025 – MORNING

MATHEMATICS
UNIT 1: NON-CALCULATOR
FOUNDATION TIER

1 hour 30 minutes

For Examiner's use only		
Question	**Maximum Mark**	**Mark Awarded**
1.	**5**	
2.	**1**	
3.	**3**	
4.	**2**	
5.	**5**	
6.	**2**	
7.	**3**	
8.	**5**	
9.	**2**	
10.	**1**	
11.	**3**	
12.	**3**	
13.	**2**	
14.	**3**	
15.	**3**	
16.	**5**	
17.	**4**	
18.	**3**	
19.	**5**	
20.	**3**	
21.	**2**	
Total	**65**	

ADDITIONAL MATERIALS

The use of a calculator is not permitted in this examination.

A ruler, protractor and a pair of compasses may be required.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

You may use a pencil for graphs and diagrams only.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** the questions in the spaces provided.

If you run out of space, use the additional page at the back of the booklet. Question numbers must be given for all work written on the additional page.

Take π as 3·14.

INFORMATION FOR CANDIDATES

You should give details of your method of solution when appropriate.

Unless stated, diagrams are not drawn to scale.

Scale drawing solutions will not be acceptable where you are asked to calculate.

The number of marks is given in brackets at the end of each question or part-question.

In question **8**, the assessment will take into account the quality of your linguistic and mathematical organisation, communication and accuracy in writing.

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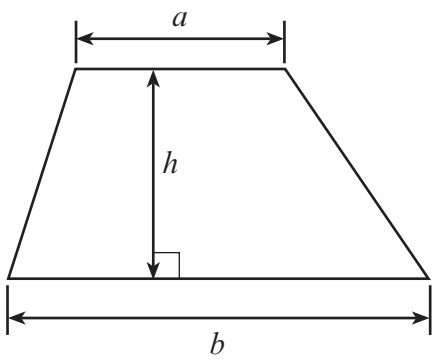
Formula List – Foundation Tier

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



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1. (a) Write twenty thousand, three hundred and six in figures. [1]

.....

(b) Write $\frac{3}{10}$ as a percentage. [1]

.....

..... %

(c) Subtract 435 from 826. [1]

.....

.....

.....

(d) Write 8467·2 correct to the nearest hundred. [1]

.....

(e) Estimate the value of 9·8 × 31·2. [1]

.....

2. In the space below, draw an angle of 134° at point *P*. [1]

P

Examiner only

3. Write numbers in the empty squares to make the calculation in each row and each column correct. [3]

30	–		=	8
+				×
=				=
48	÷		=	24

.....

.....

.....

4. (a) How many centimetres are there in 4·58 m?
Circle the correct answer. [1]

45·8 cm 0·458 cm 46 cm 458 cm 4580 cm

.....

(b) Write 3729 grams in kilograms. [1]

.....

Examiner only

5. (a) What is the mode of the nine numbers below? [1]

3 8 9 3 7 2 7 9 3

.....

Mode = ...

(b) What is the median of the seven numbers below? [2]

8 3 4 9 2 8 1

.....

Median = ...

(c) Work out the mean of the four numbers below. [2]

3 12 10 7

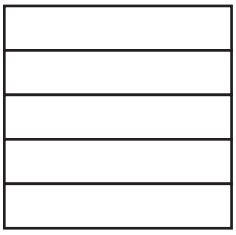
.....

.....

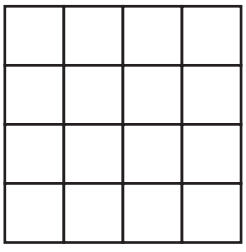
.....

Mean = ...

6. (a) Shade 40% of this shape. [1]



(b) Shade $\frac{3}{8}$ of this shape. [1]

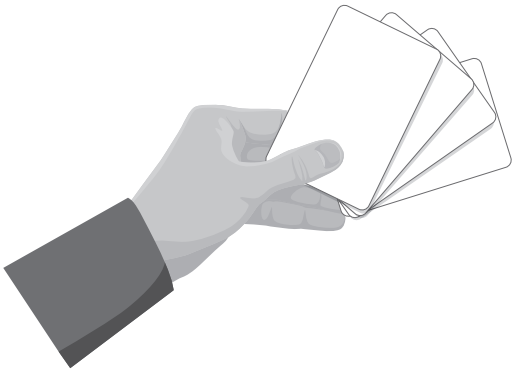


Examiner only

7. Eight cards with numbers on them are shown below.

3	6	7	8	9	11	16	25

Jo has **four** of these cards in her hand.



Dafydd chooses **one** of Jo's **four** cards at random.

- There is **an even chance** that the number on the card is a square number.
- It is **unlikely** that the number on the card is a factor of 21.

Which four cards **could** Jo have in her hand?
Write the numbers on the four cards below. [3]

.....

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.....

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8. *In this question, you will be assessed on the quality of your organisation, communication and accuracy in writing.*

A rectangle and a semicircle are joined to make the shape below.

The height of the rectangle is 10 cm.
The area of the rectangle is 400 cm^2.

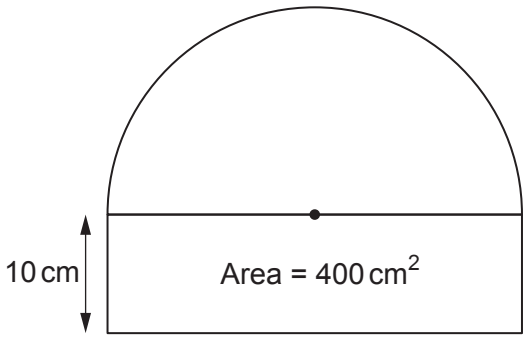

Diagram not drawn to scale

Calculate the radius of the semicircle.
You must show all your working. [3 + 2 OCW]

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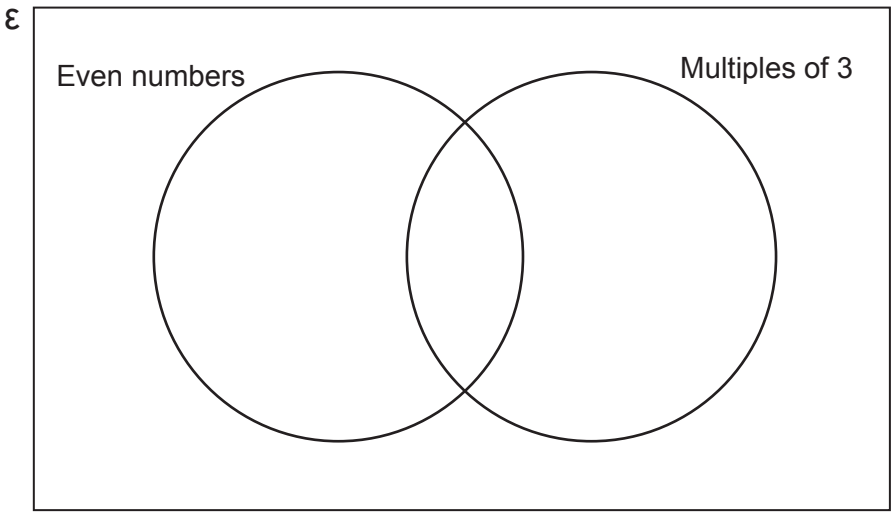
9. Place the five numbers 6, 8, 12, 25 and 27 in the Venn diagram below. [2]



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10. Solve the equation $7 + p = 45$. [1]

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11.

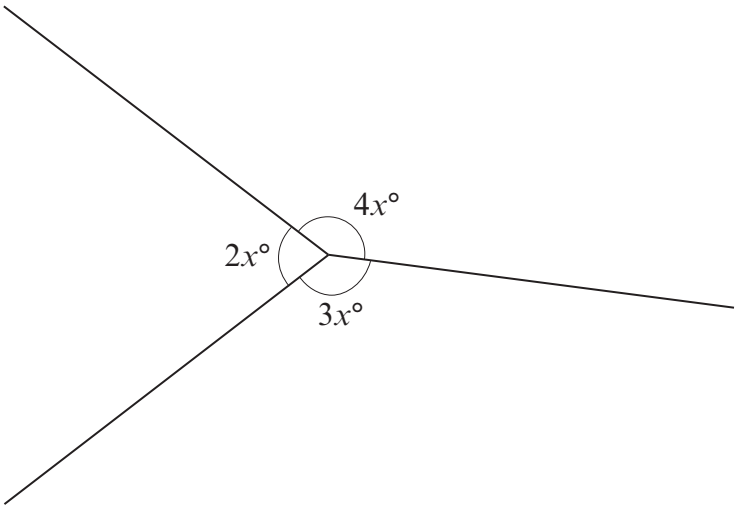

Diagram not drawn to scale

Calculate the value of x.
You must show all your working. [3]

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.....

.....

x = ...

Examiner only

12. (a) Calculate $7^2 \times 2^3$. [2]

.....

.....

.....

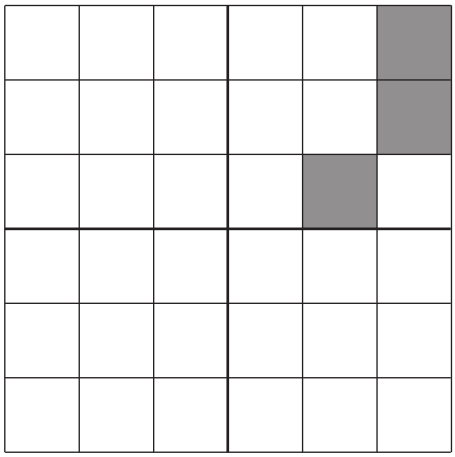
(b) Write down the next two numbers in the following sequence. [1]

18, 16, 12, 6, ... , ...

.....

.....

13. Shade the least number of squares so that the grid below has rotational symmetry of order 4. [2]



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14. Write 0·62, 68% and $\frac{13}{20}$ in ascending order.

You must show all your working. [3]

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Smallest value ⟶ Greatest value

15. In the diagram below:

- *EG* is a straight line
- *FGH* is an isosceles triangle.

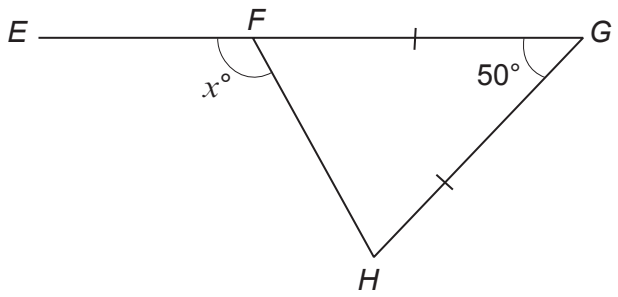

Diagram not drawn to scale

Calculate the value of x. [3]

.....

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16. Mari and Ranvir each think of a number.
Here are some clues to find their numbers.

Mari's number	Ranvir's number
A whole number less than 20 A multiple of 6	Half of Ranvir's number is $\sqrt{25}$

The product of their numbers is between 100 and 150.

Find Mari's number and Ranvir's number, and calculate the product of their numbers.
You must show all your working. [5]

Mari's number is ..... Ranvir's number is .....

The product of Mari and Ranvir's numbers is .....

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17. There are 200 pupils in a school hall.
The pupils are from Year 7 to Year 11.

One of the pupils is chosen at random.

(a) Complete the table below. [2]

	Year 7	Year 8	Year 9	Year 10	Year 11
Probability	0·2	0·3	0·26	0·14	

.....

.....

.....

.....

(b) How many of the pupils are in Year 10? [2]

.....

.....

.....

.....

18. Solve $12x - 3 = 7x + 15$. [3]

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Examiner only

19. The diagram below shows a trapezium, *ABCD*.

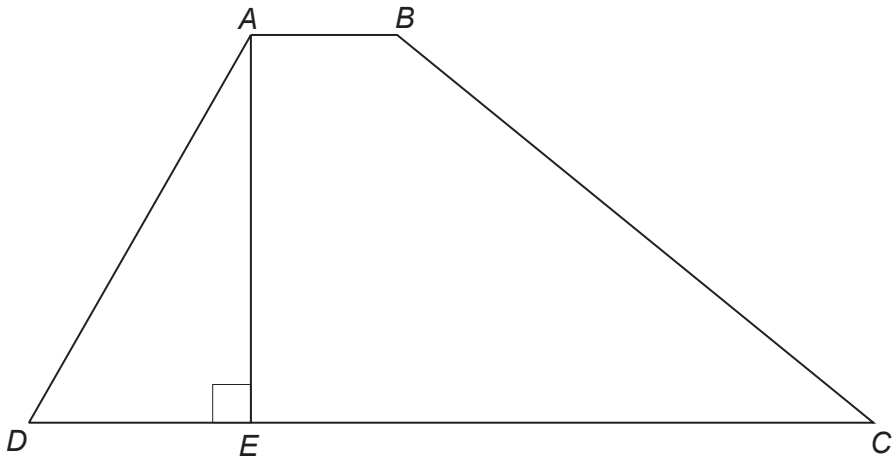

Diagram not drawn to scale

The area of the right-angled triangle, *AED*, is 24 cm^2.
The length of *AB* is 3 cm.
The length of *DE* is 4 cm.
The length of *EC* is 10 cm.

Calculate the area of the trapezium, *ABCD*.
You must show all your working. [5]

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20. Geraint cycles 18 miles in 1 hour 30 minutes.
Calculate Geraint's average speed.
Give your answer in miles per hour. [3]

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.....

.....

21.

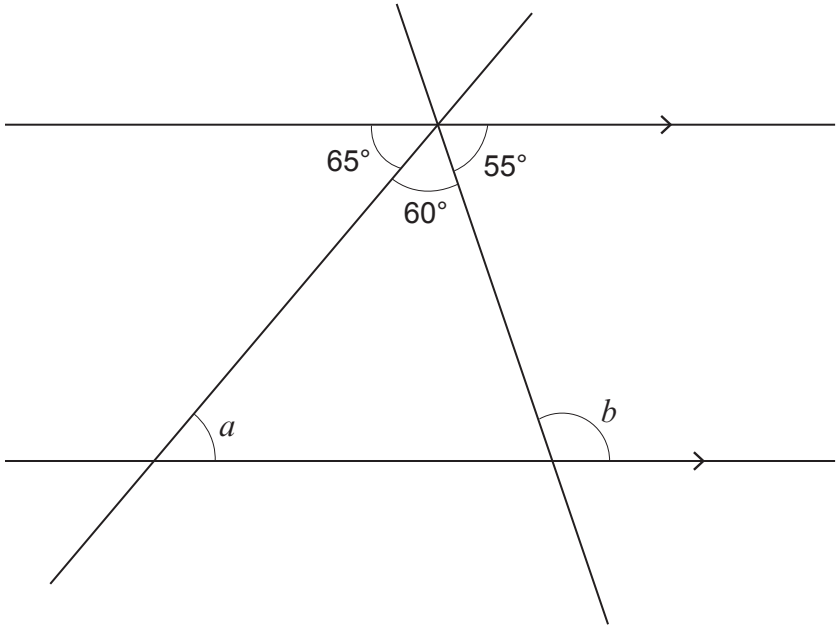

Diagram not drawn to scale

(a) Find the size of angle a. [1]

.....

(b) Find the size of angle b. [1]
Circle your answer.

55° 115° 120° 125° 135°

.....

.....

END OF PAPER

Question number	Additional page, if required. Write the question number(s) in the left-hand margin.

Examiner only