



GCSE

3300U10 –1

THURSDAY, 15 MAY 2025 – MORNING

MATHEMATICS

UNIT 1: NON – CALCULATOR

FOUNDATION TIER

**1 hour 45 minutes plus your additional
time allowance**

**THE USE OF A CALCULATOR IS NOT
PERMITTED IN THIS EXAMINATION**

Surname: _____

First Name(s): _____

Centre Number: _____

Candidate Number: 0 _____

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	

(Turn over)

ADDITIONAL MATERIALS

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

ITEMS INCLUDED WITH QUESTION PAPER

A separate Formula List.

A separate Diagram Booklet.

Shapes for Question 13.

The Diagram Booklet MUST be handed in to the invigilators and sent for marking.

(Turn over)

INSTRUCTIONS TO CANDIDATES

Use black ink, black ball–point pen, black felt tip or your usual method.

Write your name, centre number and candidate number in the spaces on the front cover.

Answer all the questions in the spaces provided.

If you run out of space, use the additional page(s) at the back of this booklet.

Question numbers must be given for all work written on the additional page(s).

Take π as $3 \cdot 14$

(Turn over)

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.

(Turn over)

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

[1 mark]

- (b) Write $\frac{3}{10}$ as a percentage.

_____ %

[1 mark]

continued on the next page . . .

(Turn over)

Question 1 continued

1. (c) Subtract 435 from 826

[1 mark]

continued on the next page . . .

(Turn over)

Question 1 continued

- 1. (d) Write $8467 \div 2$ correct to the nearest hundred.**

[1 mark]

- (e) Estimate the value of $9 \div 8 \times 31 \div 2$**

[1 mark]

(Turn over)

- 2. On the diagram provided for Question 2 in the separate Diagram Booklet, draw an angle of 135° at point *P*.**

[1 mark]

(Turn over)

- 3. Look at the diagram for Question 3 in the separate Diagram Booklet. The diagram shows a number framework. Write numbers in the empty squares to make the calculation in each row and each column correct.**

[3 marks]

(Turn over)

4. (a) How many centimetres are there in 4.58 m ?

Circle the correct answer.

45.8 cm
0.458 cm
46 cm
458 cm
4580 cm

[1 mark]

continued on the next page . . .

(Turn over)

Question 4 continued

4. (b) Write 3729 grams in kilograms.

[1 mark]

(Turn over)

5. (a) What is the mode of the nine numbers shown below?

3 8 9 3 7

2 7 9 3

Mode = _____

[1 mark]

- (b) What is the median of the seven numbers shown below?

8 3 4 9

2 8 1

Median = _____

[2 marks]

continued on the next page . . .

(Turn over)

Question 5 continued

- 5. (c) Work out the mean of the four numbers shown below.**

3**12****10****7**

Mean = _____

[2 marks]

(Turn over)

- 6. (a) Look at the diagram for Question 6 (a) in the separate Diagram Booklet.**
- Shade 40% of the shape shown.**
- [1 mark]**

- (b) Look at the diagram for Question 6 (b) in the separate Diagram Booklet.**

Shade $\frac{3}{8}$ of the shape shown.

[1 mark]

(Turn over)

7. Look at the diagram for Question 7 in the separate Diagram Booklet.

The diagram shows eight cards with numbers on them.

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**

continued on the next page . . .

(Turn over)

Question 7 continued

Which four cards COULD Jo have in her hand?

Write the numbers on the four cards below.

6

9

8

16

(Turn over)

[3 marks]

(Turn over)

8. IN THIS QUESTION, YOU WILL BE ASSESSED ON THE QUALITY OF YOUR ORGANISATION, COMMUNICATION AND ACCURACY IN WRITING.

**Look at the diagram for Question 8 in the separate Diagram Booklet.
The diagram is NOT drawn to scale.**

A rectangle and a semicircle are joined to make the shape shown in the diagram.

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

continued on the next page . . .

(Turn over)

Question 8 continued

**Calculate the radius of the semicircle.
You must show all your working.**

(Turn over)

20

[3 marks + 2 marks OCW]

(Turn over)

9. Look at the diagram for Question 9 in the separate Diagram Booklet.

The diagram shows a Venn diagram.

Place the five numbers 6, 8, 12, 25 and 27 in the Venn diagram.

[2 marks]

(Turn over)

10. Solve the equation $7 + p = 45$

[1 mark]

(Turn over)

11. Look at the diagram for Question 11 in the separate Diagram Booklet.

The diagram is NOT drawn to scale.

The diagram shows the angles $2x^\circ$, $4x^\circ$ and $3x^\circ$

Calculate the value of x .

You must show all your working.

(Turn over)

24

$x =$ _____

[3 marks]

(Turn over)

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

[2 marks]

continued on the next page . . .

(Turn over)

Question 12 continued

12. (d) Write down the next two numbers in the following sequence.

18, 16, 12, 6, _____ , _____

[1 mark]

13. Look at the diagram for Question 13 in the separate Diagram Booklet.

The diagram shows some shaded squares on a grid.

Shade the least number of squares so that the grid has rotational symmetry of order 4

Cut out squares are provided for this question.

[2 marks]

(Turn over)

14. Write 0.62 , 68% and $\frac{13}{20}$ in ascending order.

You must show all your working.

**Smallest
value**



**Greatest
value**

**[3 marks]
(Turn over)**

15. Look at the diagram for Question 15 in the separate Diagram Booklet.

The diagram is NOT drawn to scale.

In the diagram:

- **EG is a straight line**
- **FGH is an isosceles triangle**
- **Angle $FGH = 50^\circ$**
- **Angle $EFH = x^\circ$**

Calculate the value of x .

30

[3 marks]

(Turn over)

16. Look at the information for Question 16 in the separate Diagram Booklet.

Mari and Ranvir each think of a number.

The information shows some clues to find their numbers.

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.

[illegible]

(Turn over)

Mari's number is _____

Ranvir's number is _____

**The product of Mari and Ranvir's
numbers is _____**

[5 marks]

(Turn over)

**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) Look at the table for
Question 17 (a) in the separate
Diagram Booklet.
Complete the table.**

[2 marks]

continued on the next page . . .

(Turn over)

Question 17 continued

**17. (b) How many of the pupils are in
Year 10?**

[2 marks]

(Turn over)

18. Solve $12y - 3 = 7y + 15$

(Turn over)

[3 marks]

(Turn over)

19. Look at the diagram for Question 19 in the separate Diagram Booklet.

The diagram is NOT drawn to scale.

The diagram shows a trapezium, *ABCD*.

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.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

(Turn over)

40

[5 marks]

(Turn over)

20. Geraint cycles 18 miles in 1 hour 30 minutes.

Calculate Geraint's average speed.

Give your answer in miles per hour.

[3 marks]

(Turn over)

21. Look at the diagram for Question 21 in the separate Diagram Booklet. The diagram is NOT drawn to scale.

In the diagram:

PQ is parallel to ST

Angle $PQT = 65^\circ$

Angle $TQU = 60^\circ$

Angle $RQU = 55^\circ$

Angle $QTU = x$

Angle $VUQ = y$

(a) Find the size of angle x .

[1 mark]

continued on the next page . . .

(Turn over)

Question 21 continued

21. (b) Find the size of angle y .

Circle your answer.

55°	115°	120°	125°	135°
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[1 mark]

END OF PAPER

TOTAL 65 MARKS

(Turn over)

[illegible]

(Turn over)

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

[illegible]



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Diagram Booklet

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Surname: _____

First name(s): _____

Centre Number: _____

Candidate Number: 0 _____

Question 2



Question 3

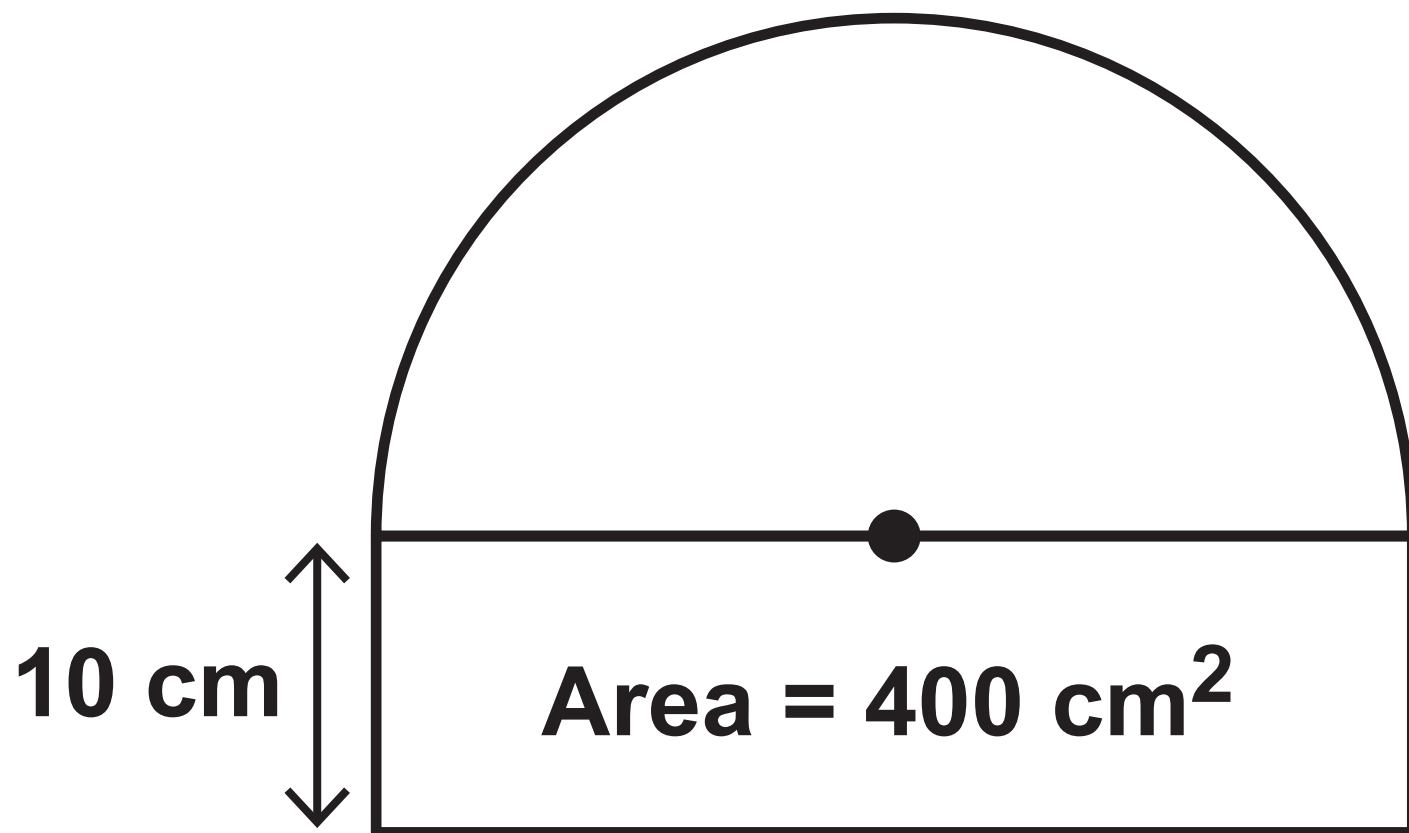
30	-		=	8
+				×
=				=
48	÷		=	24

Question 7

3	6	7	8	9	11	16	25
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Question 8

Diagram NOT drawn to scale

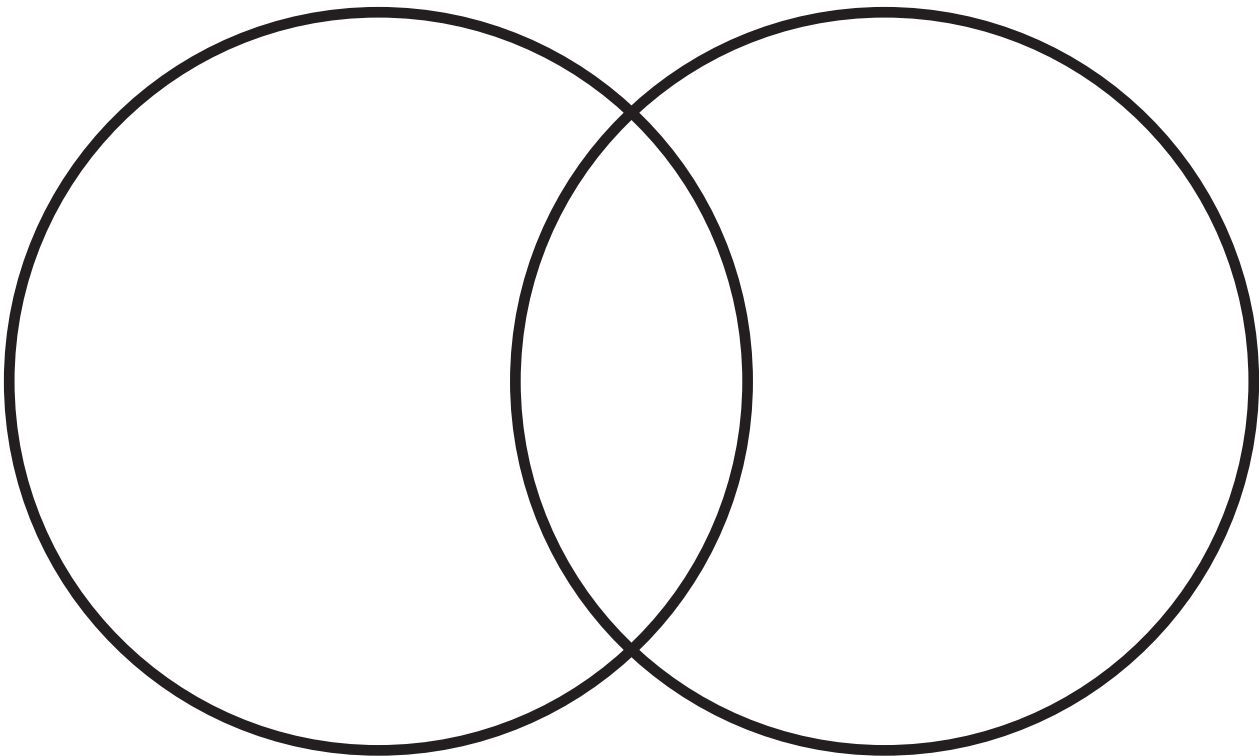


Question 9

£

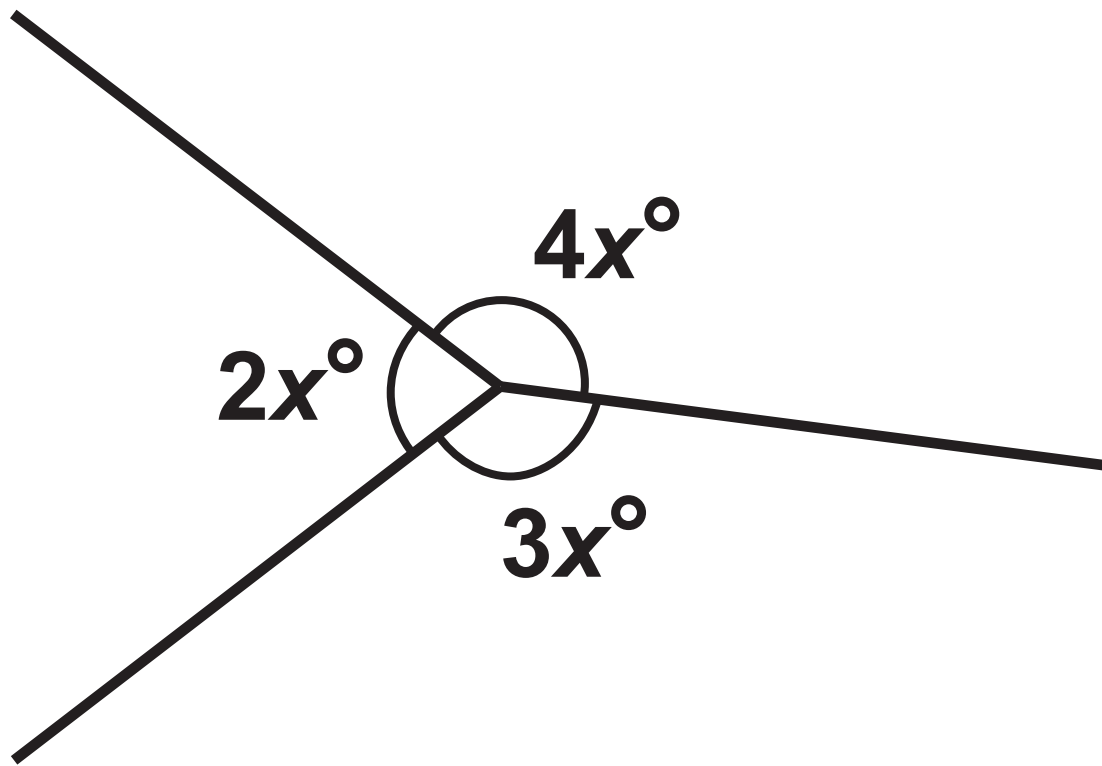
Even numbers

Multiples of 3

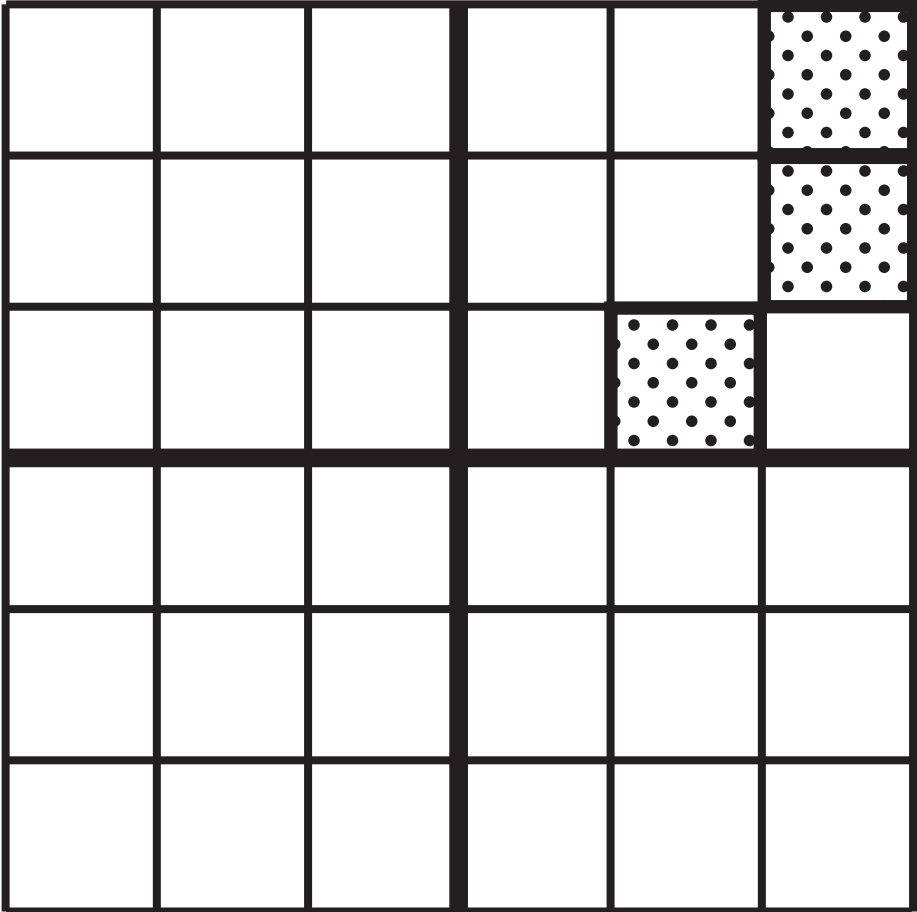


Question 11

Diagram NOT drawn to scale

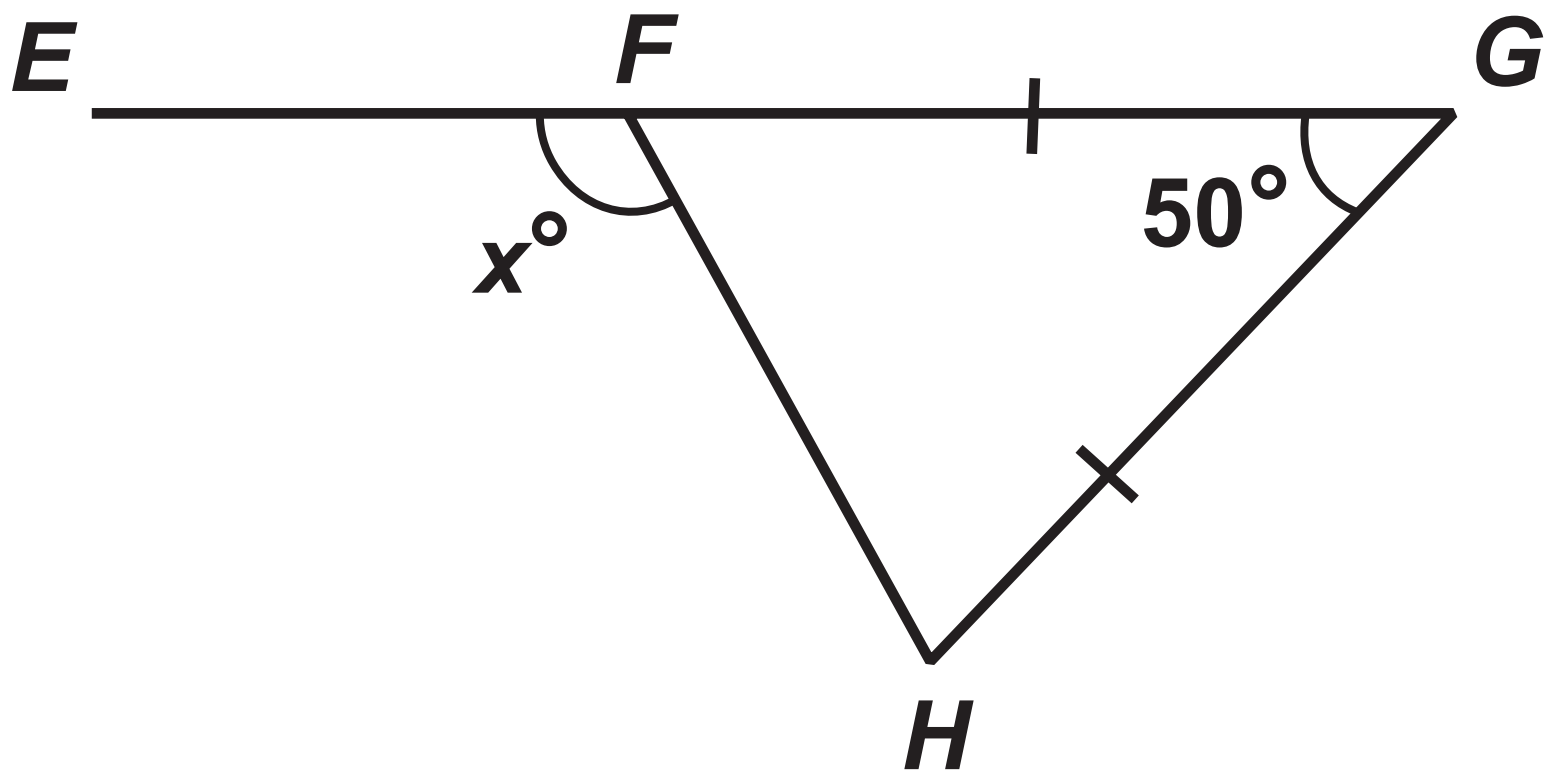


Question 13



Question 15

Diagram NOT drawn to scale



Question 16

Information

Mari's number
A whole number less than 20
A multiple of 6

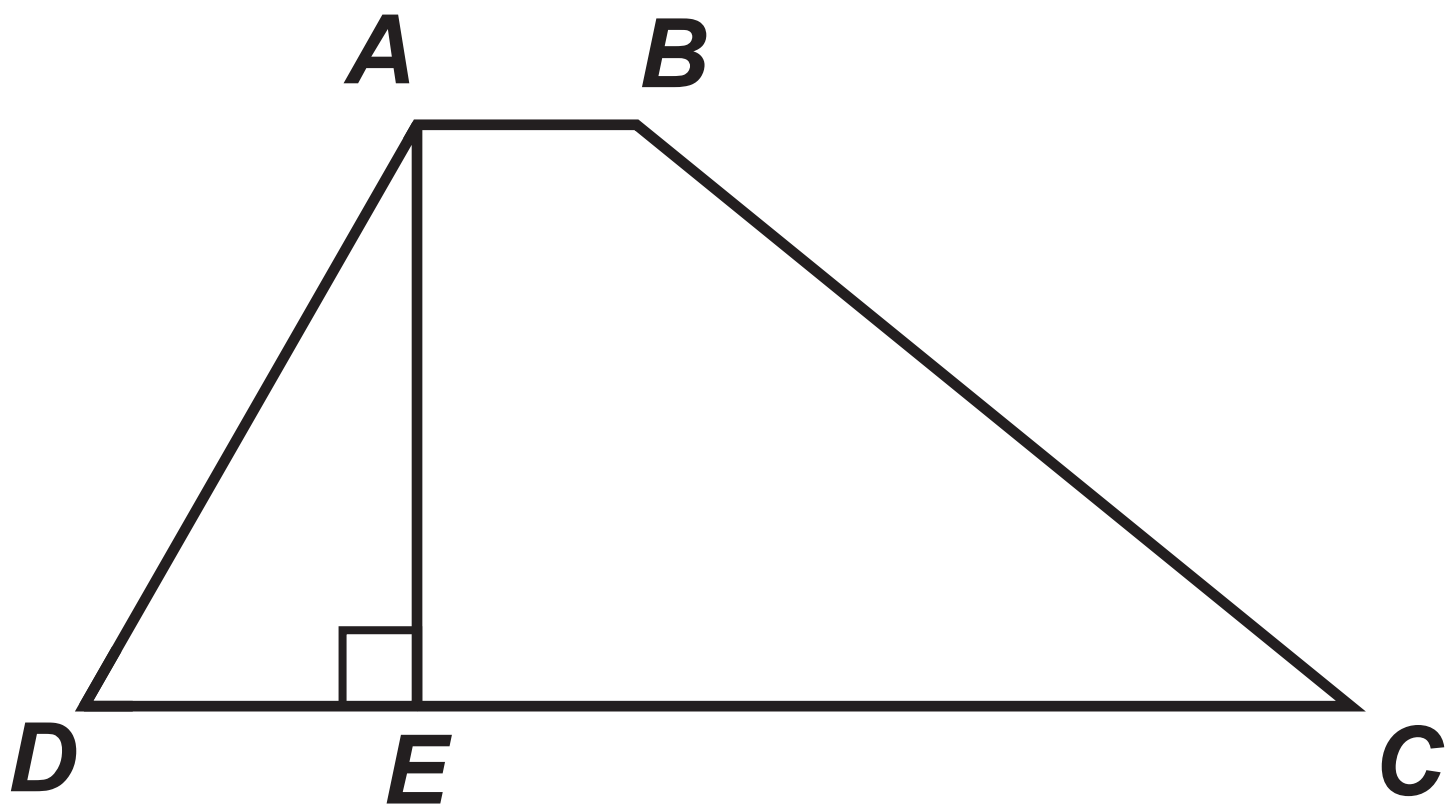
Ranvir's number
Half of Ranvir's number is $\sqrt{25}$

Question 17 (a)

	Probability
Year 7	0.2
Year 8	0.3
Year 9	0.26
Year 10	0.14
Year 11	

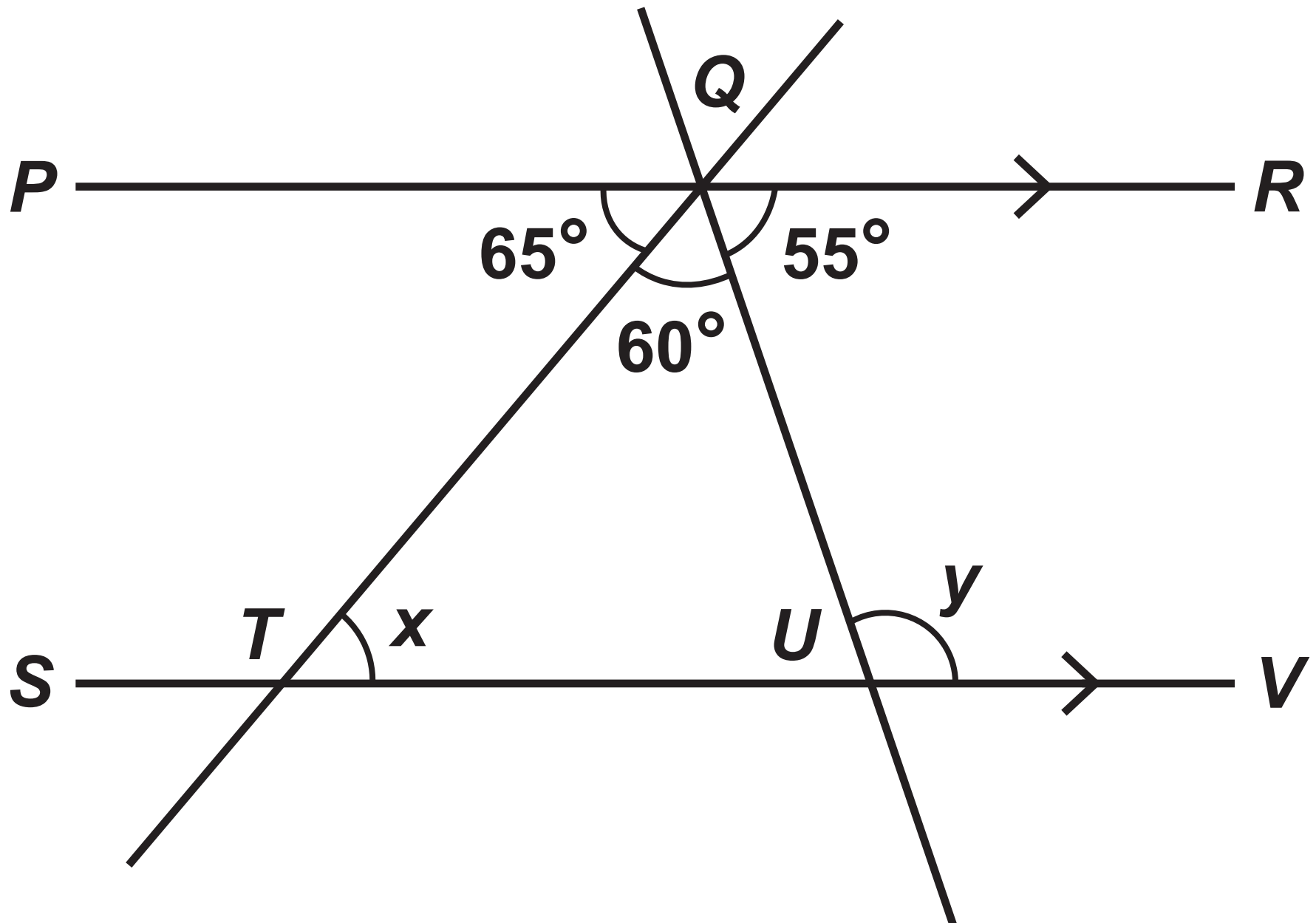
Question 19

Diagram NOT drawn to scale



Question 21

Diagram NOT drawn to scale



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MATHEMATICS – NUMERACY



**FORMULA LIST
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**You must not write on these formula
pages.**

**Anything you write on these formula
pages will gain NO credit.**

Formula List – Foundation Tier

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

