

Please write clearly in block capitals.

Centre number

Candidate number

Surname

Forename(s)

Candidate signature

I declare this is my own work.

INTERNATIONAL GCSE

MATHEMATICS

C

Core Tier Paper 1C

Wednesday 5 November 2025

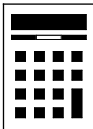
07:00 UK Time

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a calculator
- mathematical instruments.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.
- If your calculator does not have a π button, take the value of π to be 3.142.

For Examiner's Use	
Pages	Mark
2–3	
4–5	
6–7	
8–9	
10–11	
12–13	
14–15	
16–17	
18–19	
20–21	
22–23	
24–25	
TOTAL	

Advice

Show all necessary working; otherwise marks for method may be lost.

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

1 (a) Write the number seventeen thousand and fifty three in digits.

[1 mark]

Answer _____

1 (b) Write 0.2 as a fraction.

[1 mark]

Answer _____

1 (c) Round 29681 to the nearest hundred.

[1 mark]

Answer _____

1 (d) Write down the value of the 7 in 9470561

[1 mark]

Answer _____



- 2** A fair spinner has equal sections numbered 1, 2, 3, 4, 5, 6, 7 and 8

Which event is **least likely**?

Tick a box.

[1 mark]

Spinning an even number

☐

Spinning a number greater than 1

☐

Spinning a number less than 4

☐

- 3** Here are seven numbers.

17 19 20 23 25 26 38

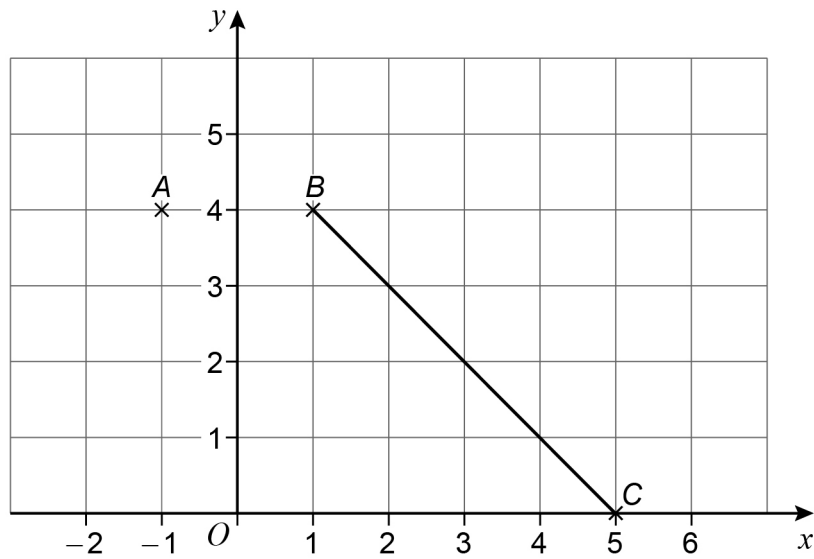
Work out the range.

[1 mark]

Answer _____



4



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

[1 mark]

Answer (_____ , _____)

4 (b) Write down the coordinates of the midpoint of BC .

[1 mark]

Answer (_____ , _____)



- 5 A shop sells a soft drink in single cans or in packs of 6 cans.

Single can	\$0.90
Pack of 6 cans	\$4.75

Work out the **least** possible cost of 13 cans.

[2 marks]

Answer \$ _____

Turn over for the next question



6 Chris repairs computers.

The pictogram shows some information about the number of computers he repaired one week.

Key:  represents 4 computers repaired

Monday	 
Tuesday	 
Wednesday	 
Thursday	
Friday	  

6 (a) How many computers did Chris repair on Wednesday?

[1 mark]

Answer _____

6 (b) On Thursday, Chris repaired 7 computers.

Complete the pictogram.

[1 mark]

6 (c) Write two comparisons about the number of computers Chris repaired on different days.

[2 marks]

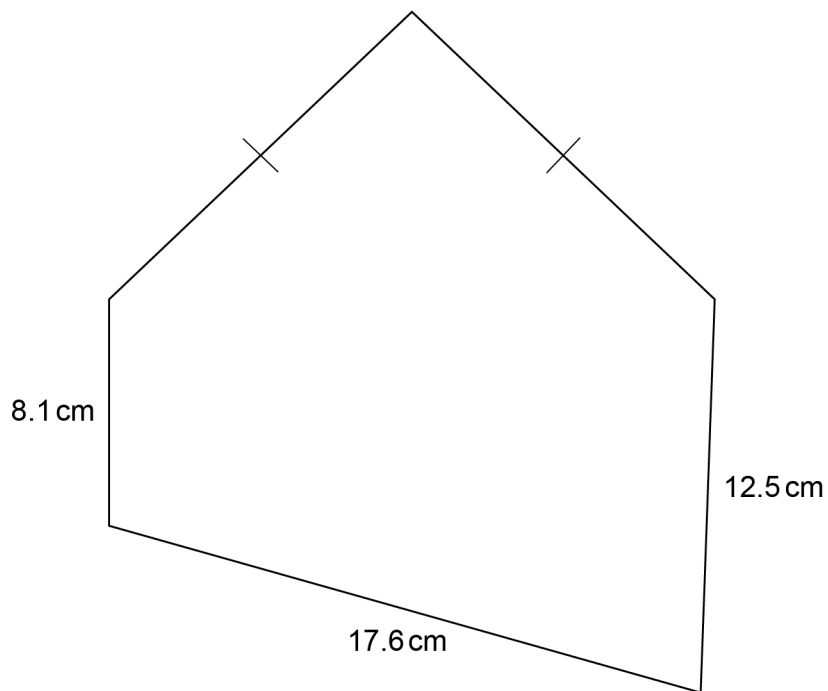
Comparison 1 _____

Comparison 2 _____



7

Here is a pentagon with two equal sides.



The perimeter of the pentagon is 67 cm

Work out the length of **one** of the equal sides.

[3 marks]

Answer _____ cm



8 (a) Simplify fully $4x + 7y - 9x + 2y + 3w$

[2 marks]

Answer _____

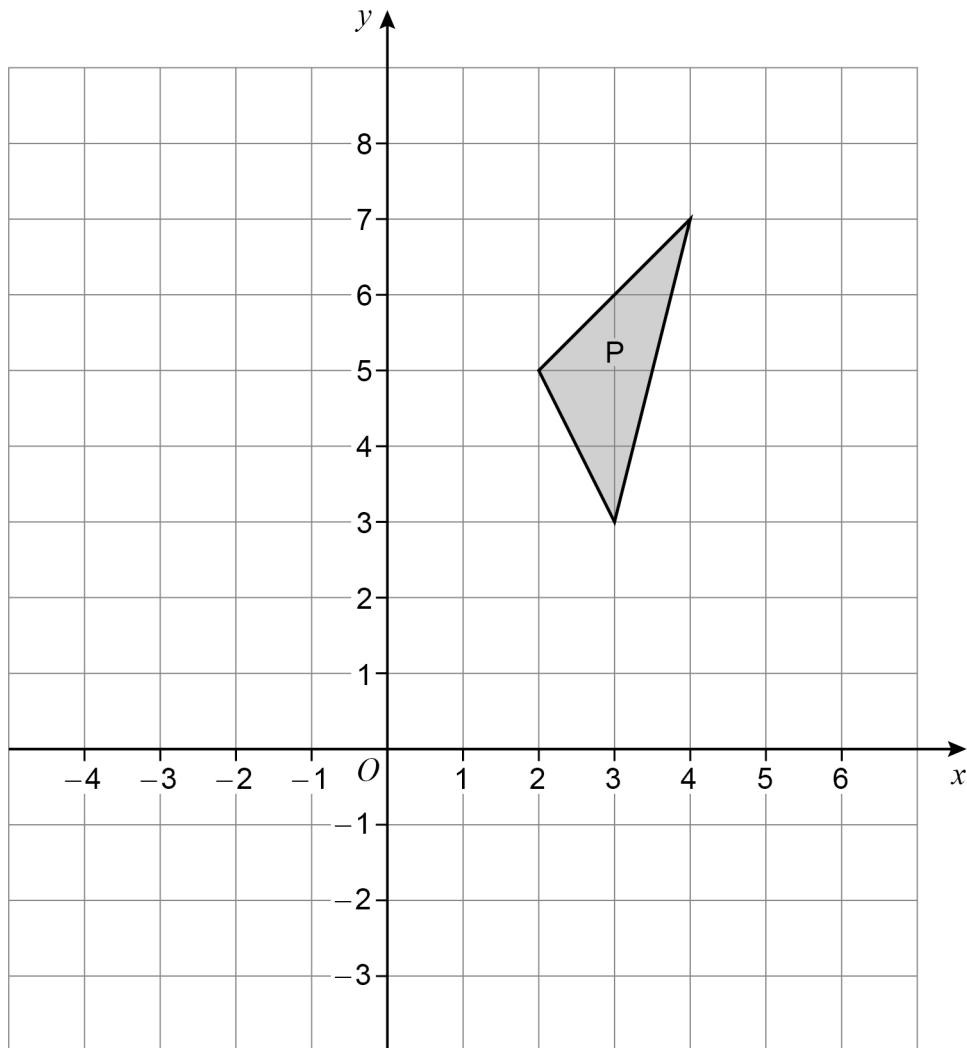
8 (b) Multiply out and simplify fully $5(x + 9) + 2(x - 3)$

[2 marks]

Answer _____



9



Translate triangle P by the vector $\begin{pmatrix} -3 \\ -5 \end{pmatrix}$

[2 marks]

Turn over for the next question

Turn over ►



10

There are 1800 grams of sugar in a bag.

Amara weighs 20 equal portions of sugar from the bag.

When she has finished, $\frac{2}{15}$ of the sugar is left in the bag.

Work out the weight of each portion of sugar.

[4 marks]

Answer _____ grams



11

A country has

- 67 000 000 people
- 1 dentist for every 2144 people.

Work out the total number of dentists in the country.

Give your answer to 3 significant figures.

[3 marks]

Answer _____

12

Here are 5 number cards.

The number on the last card is missing.

3	7	14	19	
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The mean of the 5 numbers is 13

Work out the number on the last card.

[2 marks]

Answer _____



13 A map has a scale of 1 : 40 000

13 (a) On the map, a road has length 7.5 **centimetres**.

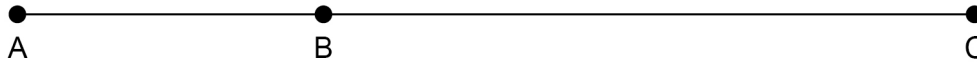
How long in **metres** is the actual road?

[2 marks]

Answer _____ m

13 (b) Towns A, B and C lie on a straight line.

Not drawn
accurately



The actual distance between A and C is 15 **kilometres**.

The distance between B and C on the map is 24 **centimetres**.

Work out the distance between A and B on the map.

[3 marks]

Answer _____ cm



14

A box contains only pink pencils and green pencils.

	Pink	Green
Number of pencils	$5n + 8$	$11n - 30$

There are 93 **pink** pencils in the box.

Work out the **total** number of pencils in the box.

[4 marks]

Answer _____

Turn over for the next question



15 75 000 people attend a festival.

43% buy a t-shirt.

The rest do **not** buy a t-shirt.

How many **more** people do **not** buy a t-shirt than buy a t-shirt?

[3 marks]

Answer _____

16 A linear sequence starts 38 33 28 ...

A different linear sequence starts 22 16 10 ...

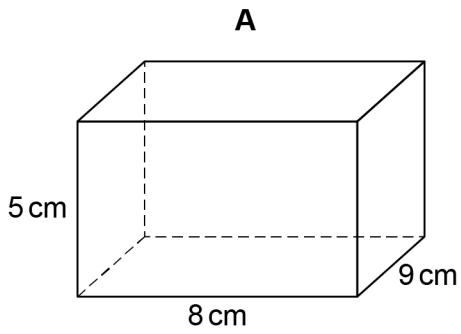
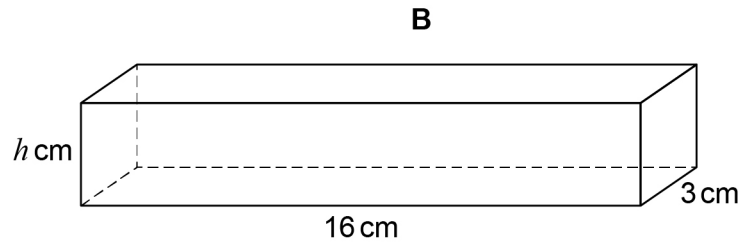
What is the **first** number that is in both sequences?

[2 marks]

Answer _____



17 Here are two cuboids, A and B.



The volume of A is the **same** as the volume of B.

Work out the value of h .

[3 marks]

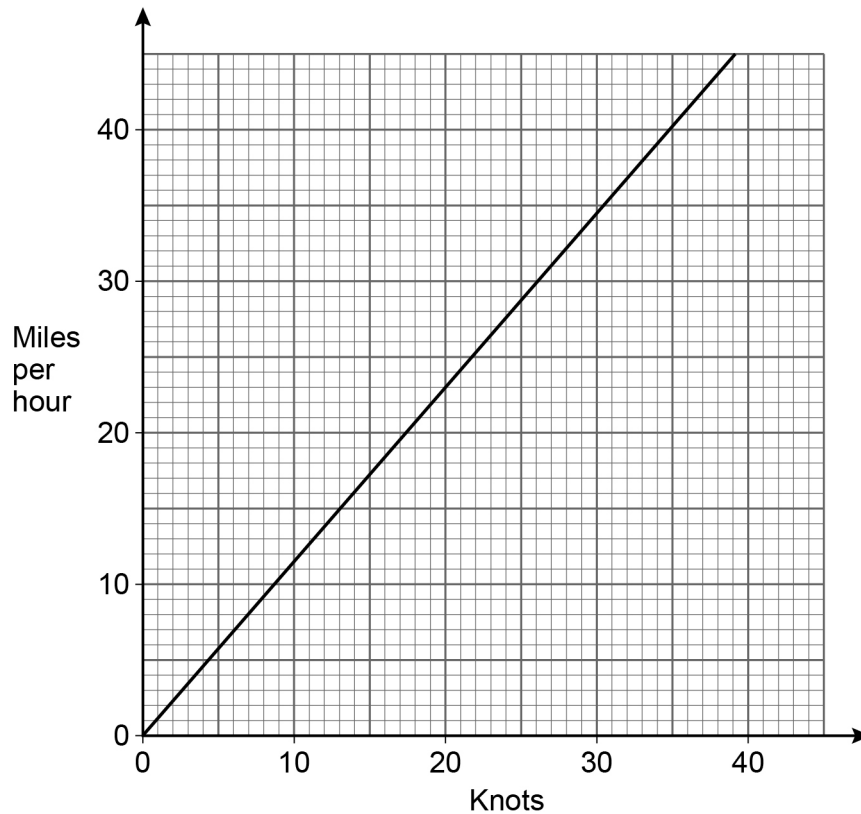
$h =$ _____

Turn over for the next question

18

Speed can be measured in knots.

The graph can be used to convert between knots and miles per hour.



Convert 200 knots into miles per hour.

[3 marks]

Answer _____ miles per hour



- 19** ξ is the set $\{1, 2, 3, 4, 5, 6, 7, 8, 9\}$
A is the set of prime numbers.
B is the set of numbers greater than or equal to 5

- 19 (a)** List all the elements of A'

[2 marks]

Answer _____

- 19 (b)** List all the elements of $A \cap B$

[1 mark]

Answer _____

Turn over for the next question



20

At a school each student studies French, Spanish or German.

Here is some information about the students in two classes.

	Study French	Study Spanish	Study German
Class A	7	13	10
Class B	15	19	16

Which class has a **greater** proportion of students who study French?

Tick a box.

☐

Class A

☐

Class B

Show working to support your answer.

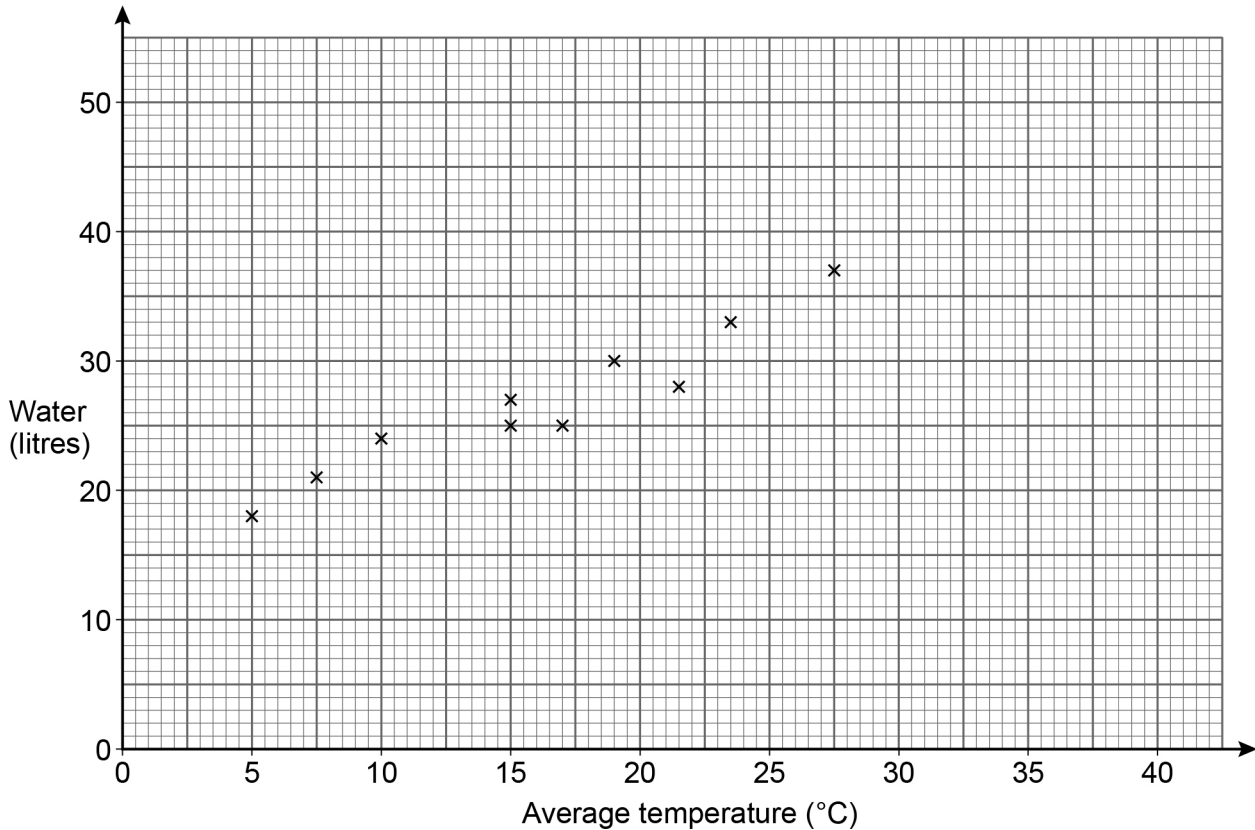
[2 marks]



21 On ten days, a farmer records

- the amount of water, in litres, a donkey drinks
- the average temperature, in $^{\circ}\text{C}$

The scatter graph shows the results.



21 (a) Draw a line of best fit and use it to estimate the amount of water the donkey drinks when the average temperature is 12.5°C

[2 marks]

Answer _____ litres

21 (b) On another day the average temperature is 40°C

Why is it **not** sensible to use the line of best fit to estimate the amount of water the donkey drinks on this day?

[1 mark]



22

An isosceles triangle has a base of length b cm

The two other sides are each 5 cm shorter than 3 times the length of the base.

Work out an expression, in terms of b , for the **perimeter** of the isosceles triangle.

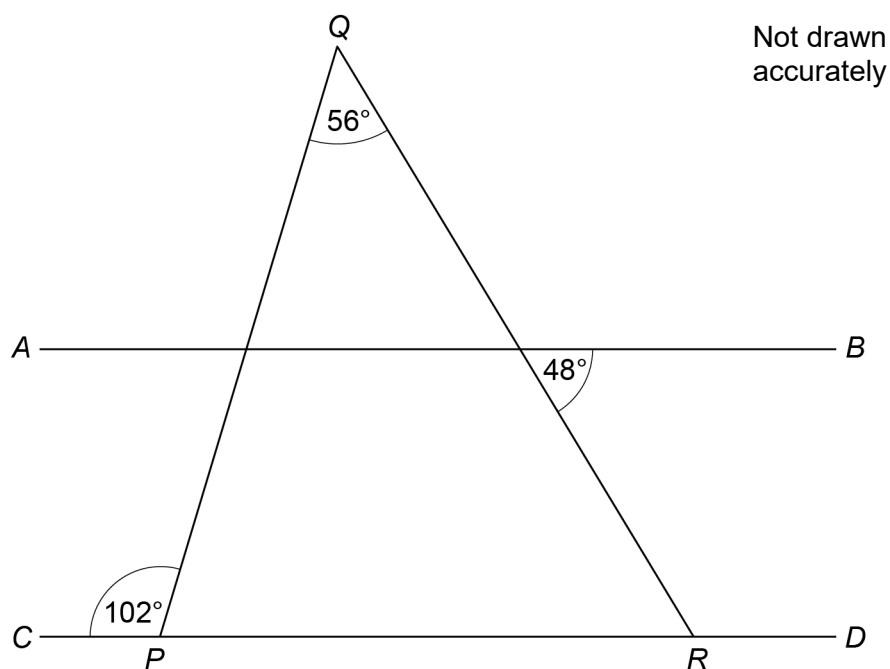
Give your answer in its simplest form.

[3 marks]

Answer _____ cm



23

 AB , CD , PQ and QR are straight lines.Is AB parallel to CD ?

Show working to support your answer.

[3 marks]

Turn over for the next question

Turn over ►



24

Match each equation to a description of its graph.

One has been done for you.

[3 marks]

	A horizontal line
$y = -1$	A curve that is always above the x -axis
$y = x^3$	A straight line with a gradient of 2
$y = 2x + 1$	A straight line passing through (0, 2)
$y = x^2 + 1$	A curve passing through the origin
	A vertical line



- 25 (a)** Work out $(2.1 \times 10^{10}) \div (5 \times 10^4)$
Give your answer in standard form.

[2 marks]

Answer _____

- 25 (b)** Write these numbers in order, starting with the **smallest**.

[2 marks]

2.7×10^{-5}

3.5×10^3

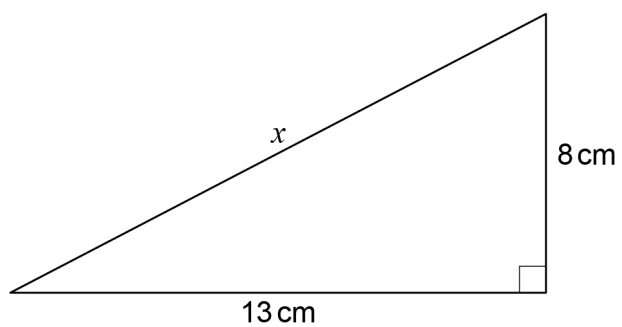
8.3×10^{-4}

9.6×10^{-5}

Answer _____

Turn over for the next question**Turn over ►**

26 (a)

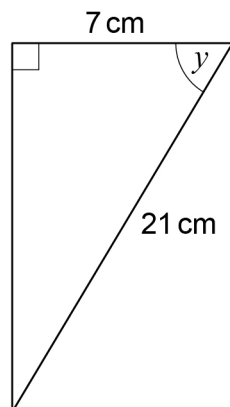
Not drawn
accuratelyUse Pythagoras' theorem to work out the value of x .

Give your answer as a decimal.

[3 marks]

 $x =$ _____ cm

26 (b)

Not drawn
accuratelyUse trigonometry to work out the size of angle y .**[3 marks]**

$$y = \text{_____}^\circ$$

27

A prism has 15 edges.

How many **vertices** does the prism have?

Circle your answer.

[1 mark]

7

10

15

20

END OF QUESTIONS

There are no questions printed on this page

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outside the
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ANSWER IN THE SPACES PROVIDED**



[illegible]

