

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

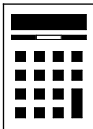
Core Tier Paper 2C

Tuesday 11 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	
26–27	
TOTAL	

Advice

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

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

- 1 Complete the equivalent fraction.

$$\frac{2}{5} = \frac{\quad}{30}$$

[1 mark]

- 2 Work out $\sqrt{211+45}$

[1 mark]

Answer _____

- 3 Here are some numbers.

7 8 8 8 12 16 16 17 18

Write down the mode.

[1 mark]

Answer _____

- 4 Which is closer in value to 420, 419.55 or 420.47 ?
You **must** show your working.

[1 mark]

Answer _____



- 5** The table shows the favourite flavour of milkshake of 30 people.

Flavour	Number of people
Vanilla	8
Chocolate	16
Banana	6

On the grid, draw a bar chart to show this information.

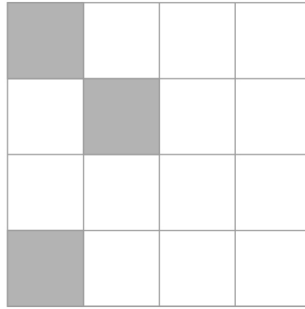
[3 marks]

Favourite flavour



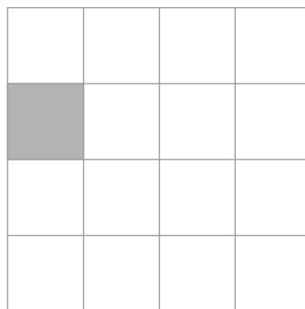
- 6 (a)** Shade **one more** small square so that this grid has exactly **one** line of symmetry

[1 mark]

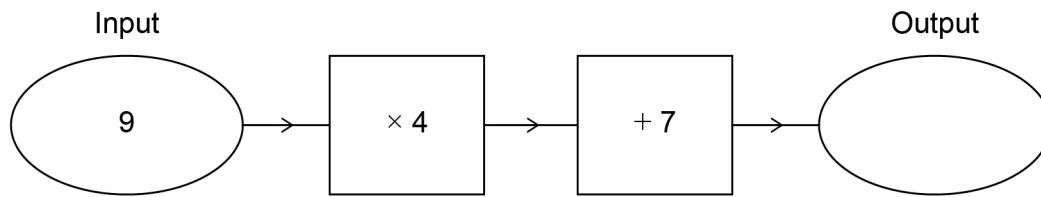


- 6 (b)** Shade **three more** small squares so that this grid has
rotational symmetry of order 2
and
no lines of symmetry.

[2 marks]



7 (a) Here is a number machine.

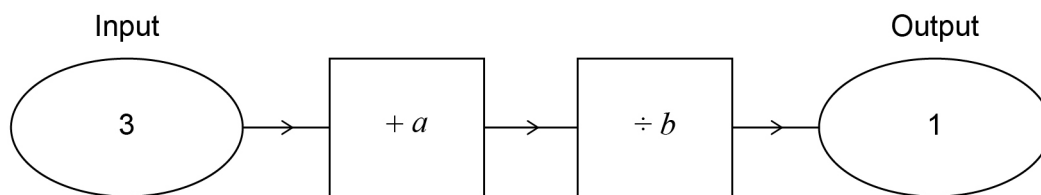


Work out the output.

[1 mark]

Answer _____

7 (b) Here is a different number machine.



Work out **one** possible pair of values for a and b .

[1 mark]

$a =$ _____ $b =$ _____



8

A freezer has a temperature of 24°C when it is first switched on at 08.30

The temperature decreases by 3°C every hour.

At what time will the temperature reach -18°C ?

[3 marks]

Answer _____



- 9 Abeba puts these 11 letters into a bag.

P R O B A B I L I T Y

She takes one letter at random.

- 9 (a) Circle the chance that she takes a letter E.

[1 mark]

impossible

unlikely

evens

likely

certain

- 9 (b) Work out the probability that she takes a letter B **or** a letter R.

[1 mark]

Answer _____

- 9 (c) Work out the probability that she does **not** take a letter Y.

[1 mark]

Answer _____



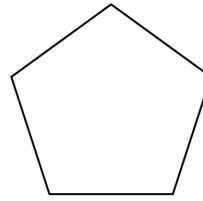
10

Here are 4 shapes.

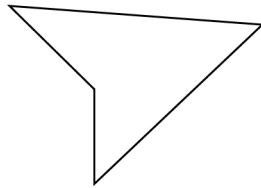
A



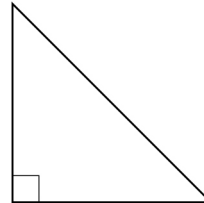
B



C



D



Complete each of the following statements using A, B, C or D.

[2 marks]

The shape with a reflex interior angle is _____

The shape where all exterior angles are equal is _____



11

A pair of shoes costs \$120 in New York.

The same pair of shoes costs 890 Chinese Yuan in Beijing.

\$1 = 7.32 Chinese Yuan

Where are the shoes cheaper, New York or Beijing?

Tick a box.

New York

☐

Beijing

☐

Show working to support your answer.

[2 marks]

Turn over for the next question

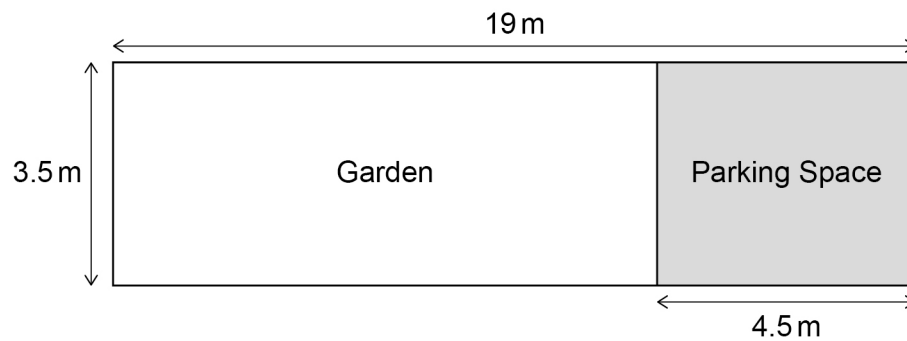
Turn over ►



12

The plan shows the area in front of a house
Makani is going to cover the **garden** in grass seed.

Not drawn
accurately



The garden is a rectangle.

One bag of grass seed covers 6 m^2

Makani has no bags of grass seed.

How many bags of grass seed does Makani need to buy?

[3 marks]

Answer _____



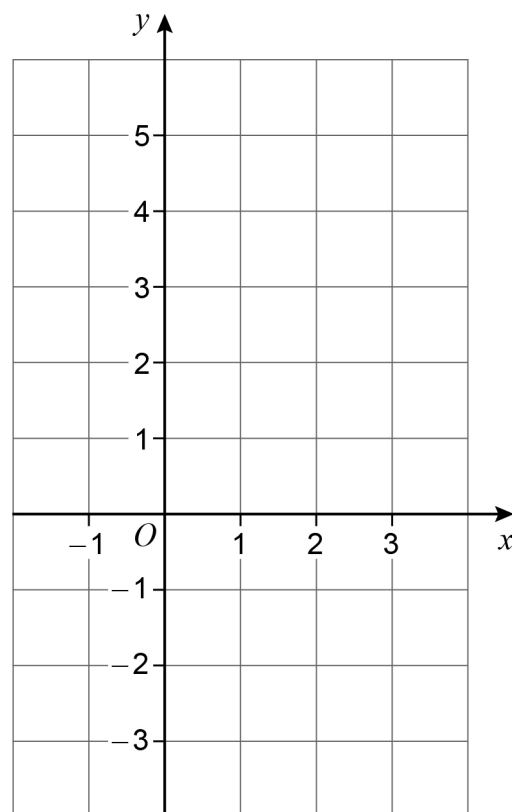
13 (a) Complete the table of values for $y = 3 - 2x$

[2 marks]

x	-1	0	1	2	3
y			1	-1	

13 (b) On the grid, draw the graph of $y = 3 - 2x$ for values of x from -1 to 3

[2 marks]



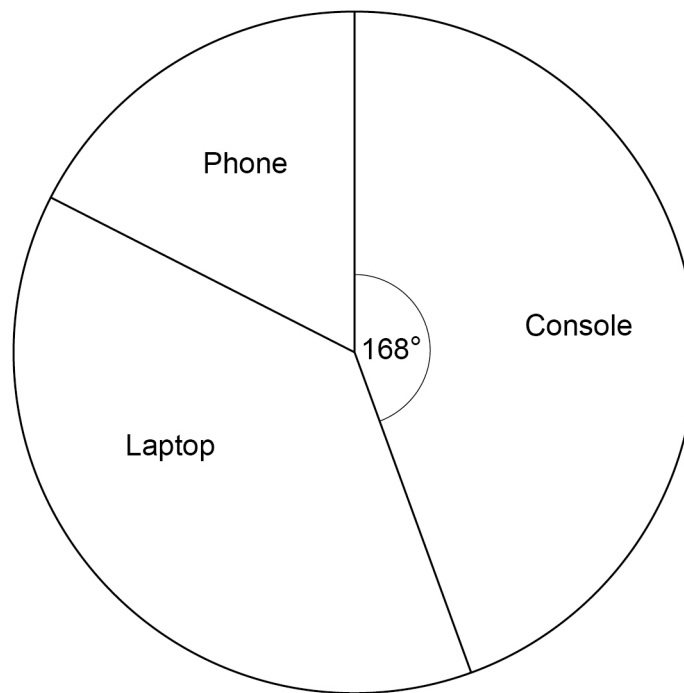
Turn over for the next question

Turn over ►



14

Some people were asked what device they usually play their games on.
The pie chart represents the results.



14 (a) Twice as many people said laptop as said phone.

Work out the angle for laptop.

[3 marks]

Answer _____ °



14 (b) The pie chart represents 1200 people.

How many people said console?

[3 marks]

Answer _____

15 A three-digit number has different digits.

- The number is odd.
- The number is 900 when rounded to the nearest hundred.
- Each digit of the number is a factor of 24

Work out **one** possible value of this three-digit number.

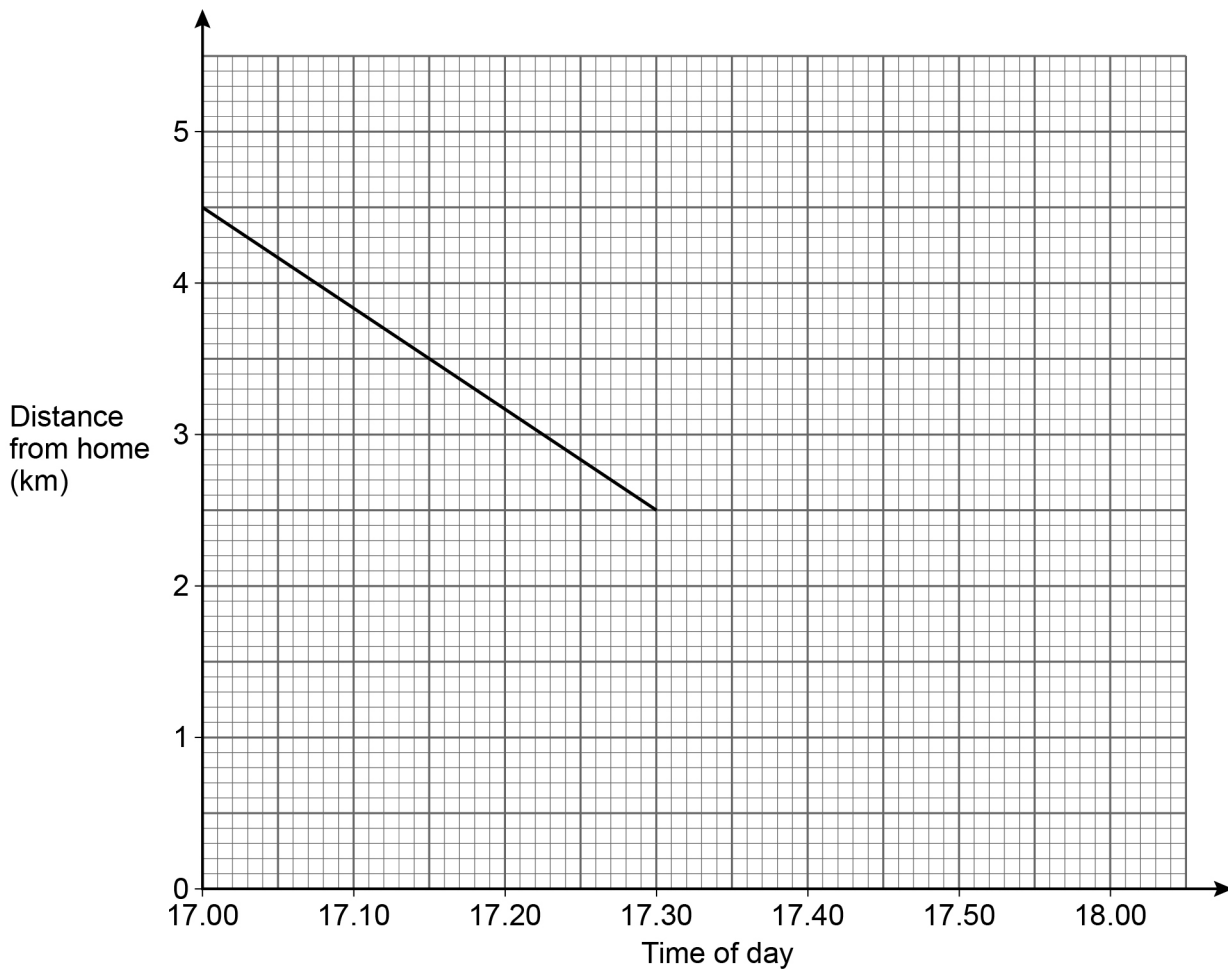
[3 marks]

Answer _____



16

Bob leaves work at 17.00 and begins to walk home.
Here is part of a distance-time graph of his walk home.



- 16 (a)** Work out Bob's average speed during the first 30 minutes.
Give your answer in kilometres per hour.

[2 marks]

Answer _____ km/h



- 16 (b)** At 17.30 Bob stops for five minutes to buy a drink.
- He then finishes his walk at a constant speed.
 - He arrives home at 17.55

Complete the distance-time graph.

[2 marks]

- 17** Suki and Kamal share \$450 in the ratio 2 : 3
Kamal saves 15% of his money and spends the rest.

How much money does Kamal **spend**?

[3 marks]

Answer \$ _____

Turn over for the next question

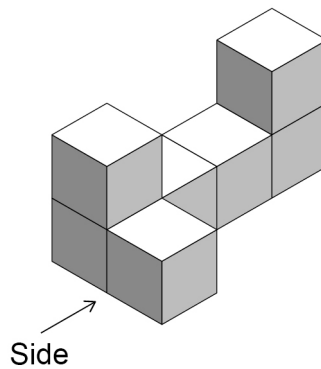


- 18 Rearrange $y = 3x - 7$ to make x the subject.

[2 marks]

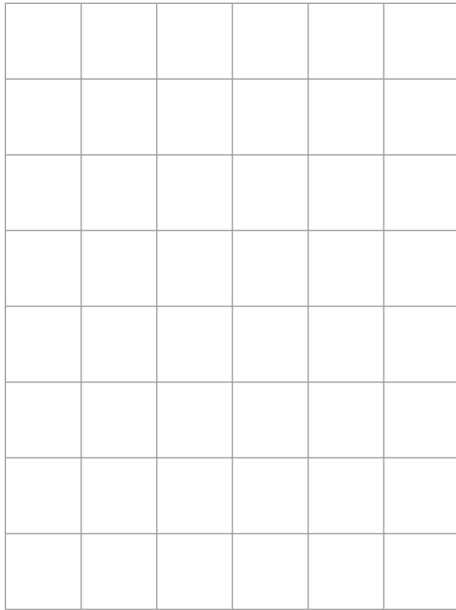
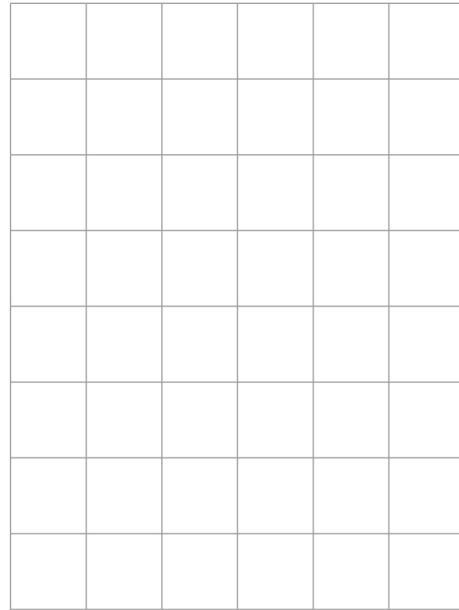
Answer _____

- 19 This solid is made from seven cubes with edge length 1 cm



- 19 (a)** On the centimetre grids, draw a plan and the side elevation of the solid.

[2 marks]

Plan**Side elevation**

- 19 (b)** Work out the **total** surface area of the solid.
State the units of your answer.

[2 marks]

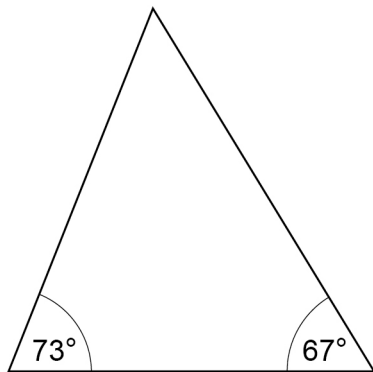
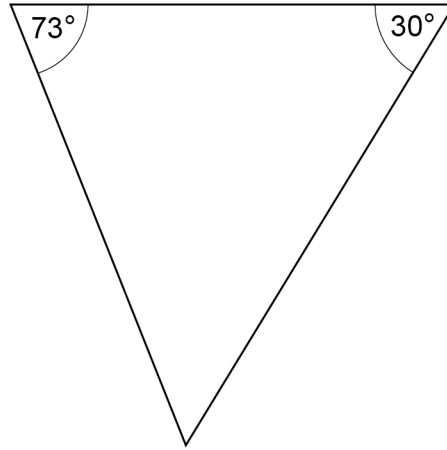
Answer _____

Turn over for the next question



20

Here are two triangles.

Not drawn
accuratelyAre the two triangles **similar**?

Tick a box.

Yes

☐

No

☐

Cannot tell

☐

Show working to support your answer.

[1 mark]



21

Ash has a biased spinner.

The spinner has a red section and a blue section.

He wants to estimate the probability of the spinner landing on red.

He spins the spinner 20 times.

Here are the results.

	Red	Blue
Number of spins	9	11

21 (a)

Work out an estimate of the probability that the spinner lands on red.

[1 mark]

Answer _____

21 (b)

Write down **one** way Ash could make the estimate more reliable.

[1 mark]

21 (c)

Claire spins the same spinner 20 times.

Will her results be the same as Ash's results?

Tick a box.

Yes

☐

No

☐

Cannot tell

☐
[1 mark]

22

Two jars each contain only green balls and red balls.

Jar A	number of green balls : number of red balls $= 4 : 7$
--------------	--

Jar B	number of green balls : number of red balls $= 3 : 2$
--------------	--

Both jars have the same number of **green** balls.

Each jar has fewer than 50 balls.

Work out the **total** number of red balls in the jars.

[3 marks]

Answer _____



23

A circle has an area of 220 cm^2

Work out the **circumference** of the circle.

[3 marks]

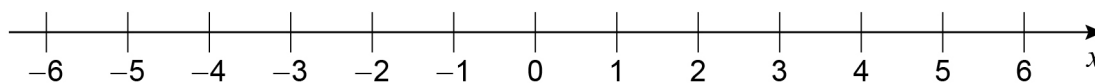
Answer _____ cm

Turn over for the next question



24 (a) Represent $-5 < x < 3$ on the number line.

[1 mark]



24 (b) Solve $9y \geq 6y + 15$

[2 marks]

Answer _____

24 (c) $-3 \leq w < 2$

Work out the **greatest** possible value of w^2

[1 mark]

Answer _____



25

A town has a population of 70 000

The population decreases by 4.5% each year.

Work out the population of the town after 4 years.

[3 marks]

Answer _____

Turn over for the next question

Turn over ►

26 (a) Simplify $a^4 \times a^9$

[1 mark]

Answer _____

26 (b) Simplify $\frac{c^{12}}{c^3}$

[1 mark]

Answer _____

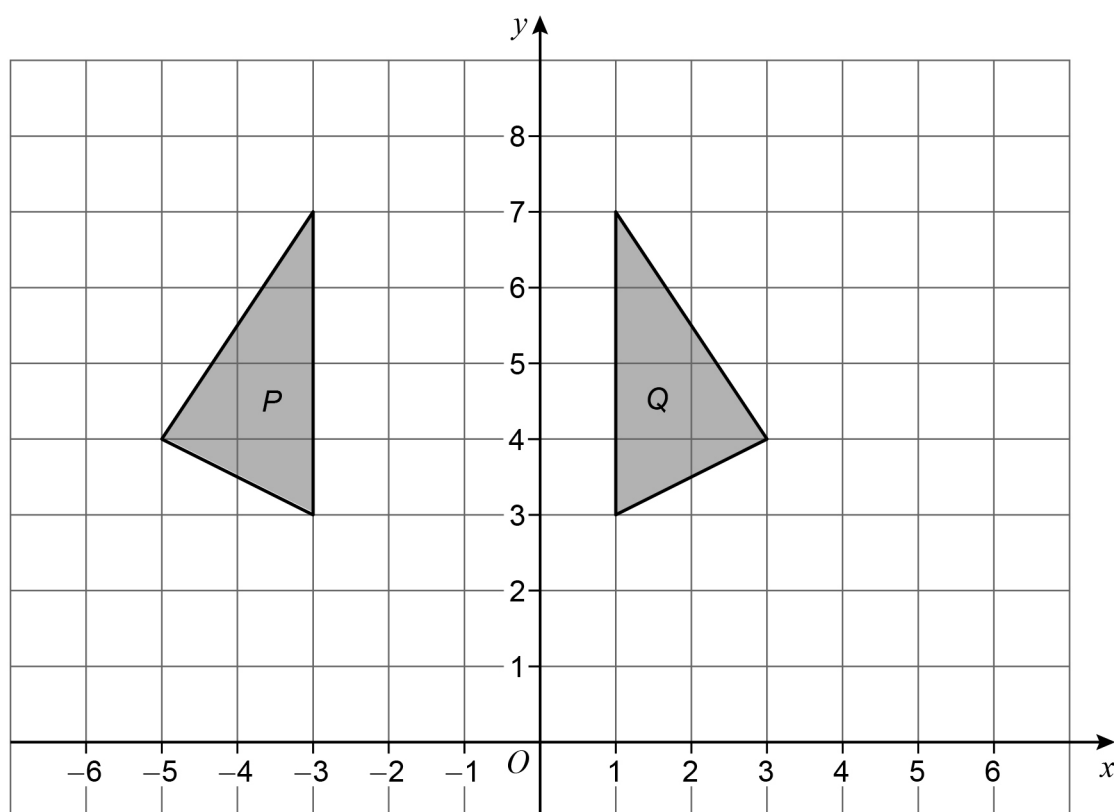
26 (c) Simplify fully $(3y^5)^2$

[2 marks]

Answer _____



27 (a)



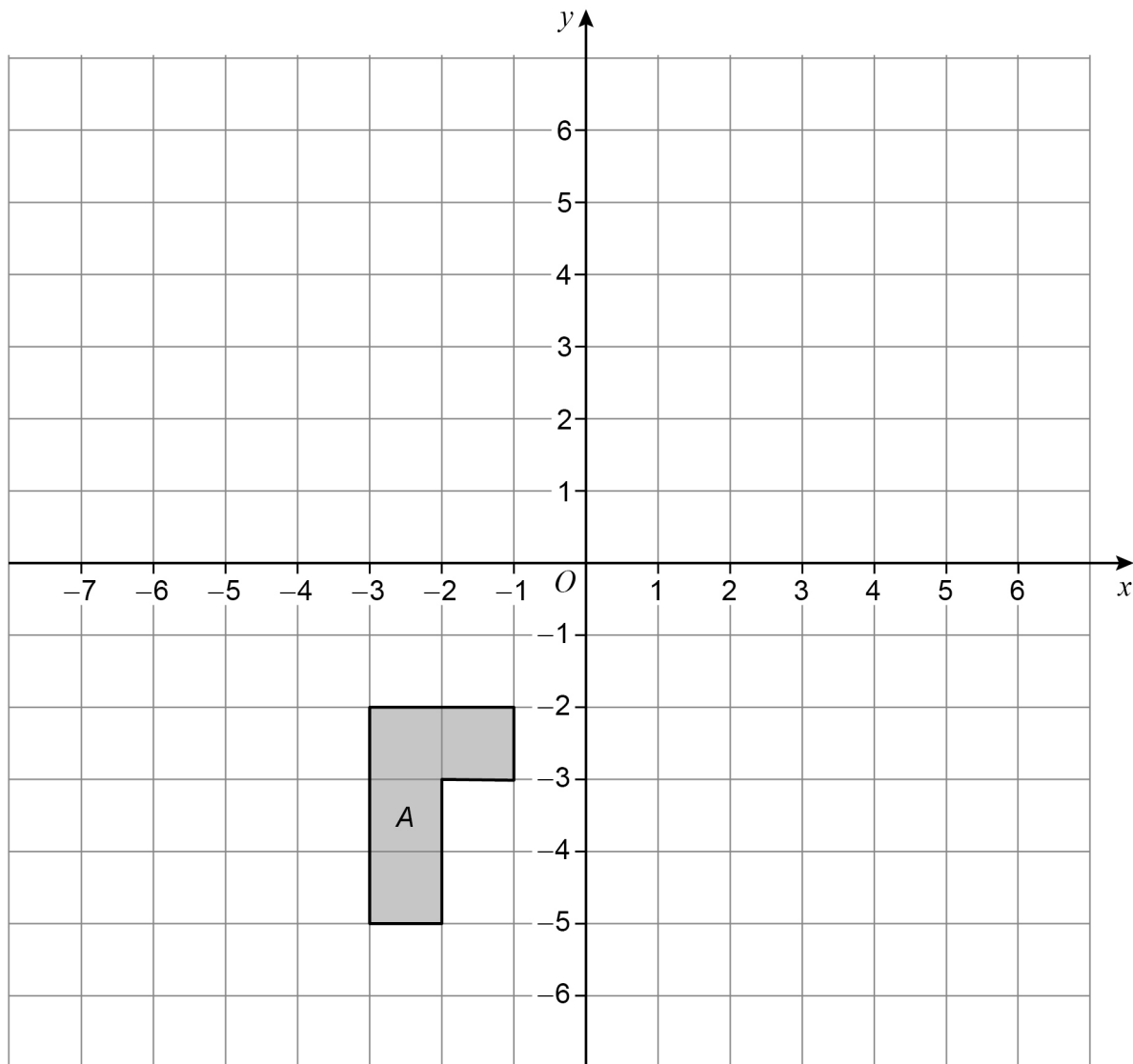
Describe fully the **single** transformation that maps triangle *P* to triangle *Q*.

[2 marks]

Question 27 continues on the next page



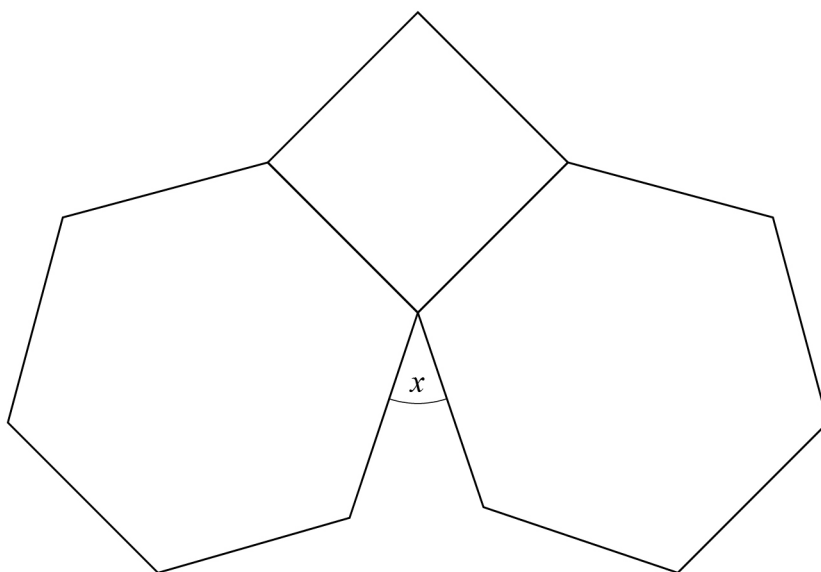
27 (b)

Rotate shape A 90° anti-clockwise about $(-1, 1)$ **[2 marks]**

28

The diagram shows a square and two regular hexagons.

Not drawn
accurately



Work out the size of angle x .

[4 marks]

$x =$ _____ °

END OF QUESTIONS



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ANSWER IN THE SPACES PROVIDED**



[illegible]

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