Cambridge Primary Checkpoint

CANDIDATE NAME	

CENTRE NUMBER		CANDIDATE NUMBER	

MATHEMATICS **0096/02**

Paper 2 **April 2025**

45 minutes

You must answer on the question paper.

You will need: Compasses
Protractor
Tracing paper (optional)

INSTRUCTIONS

- Answer **all** questions.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- You should show all your working in the booklet.
- You may use a calculator.

INFORMATION

- The total mark for this paper is 40.
- The number of marks for each question or part question is shown in brackets [ ].

This document has **20** pages.

1 Write a number in the box to make this statement correct.

$$\frac{\boxed{}}{100} = 0.25$$

[1]

2 Here are the first four terms of a sequence.
The sequence continues in the same way.

$$1 \qquad 4 \qquad 9 \qquad 16$$

Write the 8th term of this sequence.
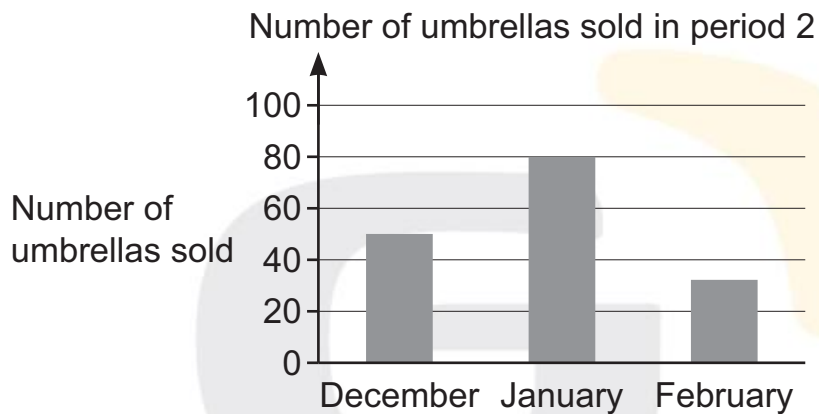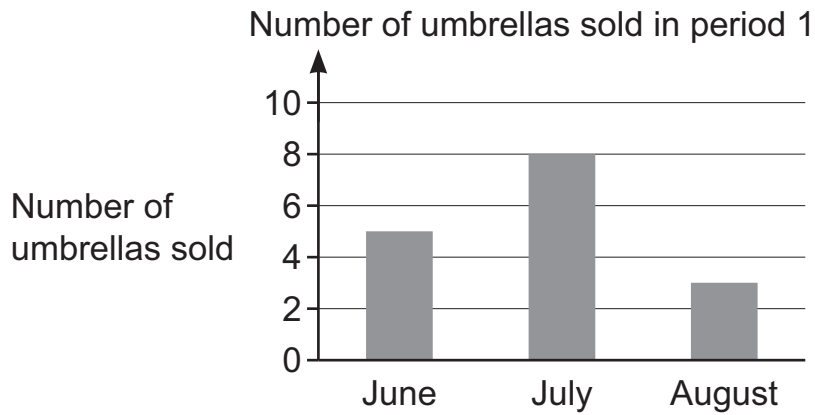
.... [1]

3 The mass of a chair is 30 kilograms.

The mass of a bookcase is $\frac{5}{3}$ of the mass of the chair.

Calculate the mass of the bookcase.

.... kilograms [1]

4 A shopkeeper records the number of umbrellas she sells each month.
The bar charts show the data for two different time periods of three months.

Number of umbrellas sold in period 1

Number of umbrellas sold in period 2

The shopkeeper says, 'I sell the same number of umbrellas in period 1 as I sell in period 2.'
The shopkeeper is **not** correct.

Explain how you know **without** calculating the number sold.

....

....

.... [1]

5 Here are some numbers.

11.50   11.55   10.05   10.95   11.05

Write these numbers in order of size, starting with the smallest.

....

   smallest   largest

[1]

6 Draw a ring around **each** of the diagrams that are a net of a closed cube.

[1]

7 A bag contains 5 green sweets, 3 yellow sweets and 2 pink sweets.
Chen picks a sweet from the bag.

Complete the sentence.

The chance that Chen picks a yellow sweet is .... out of .... [1]

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8 Insert **one** pair of brackets to make the calculation correct.

$$25 + 5 \times 2 = 60$$

[1]

9 (a) Here is a drawing of a house.

Measure the angle at the top of the house.
Write your answer in the box. [1]

(b) Here is a drawing of a different house.
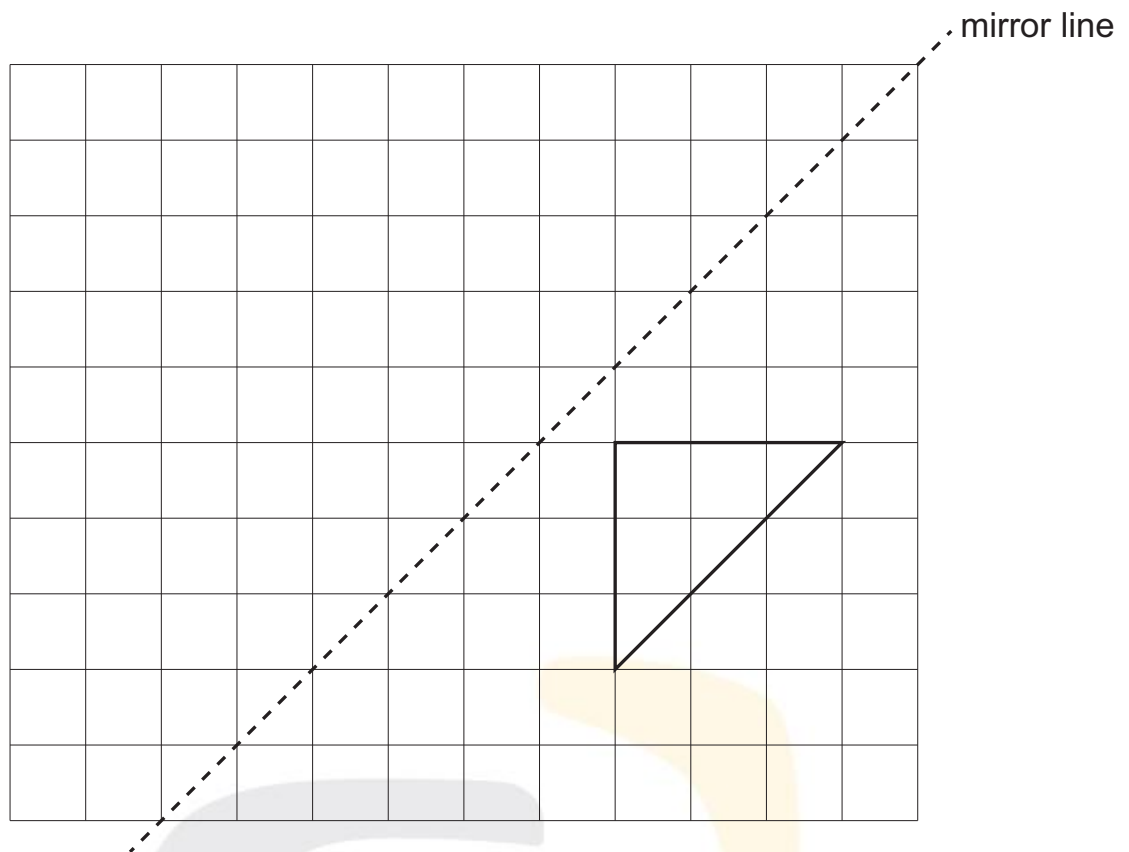
Not drawn to scale   100°

The drawing of the house has one line of symmetry.
The angle at the top of the house is 100°.

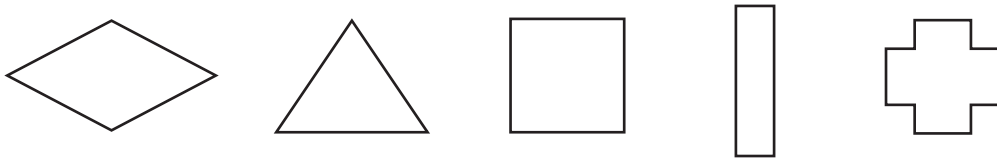Write the sizes of the **two** marked angles in the boxes. [1]

                   [Turn over

10 Here is a triangle drawn on a grid of squares.

Reflect the triangle in the mirror line.
Draw the reflection. [1]

11 Here are some 2D shapes.

Draw a ring around **each** shape with rotational symmetry of order 2 [1]

12 Here are two shapes drawn on a grid of 1 cm squares.
The shapes are labelled A and B.
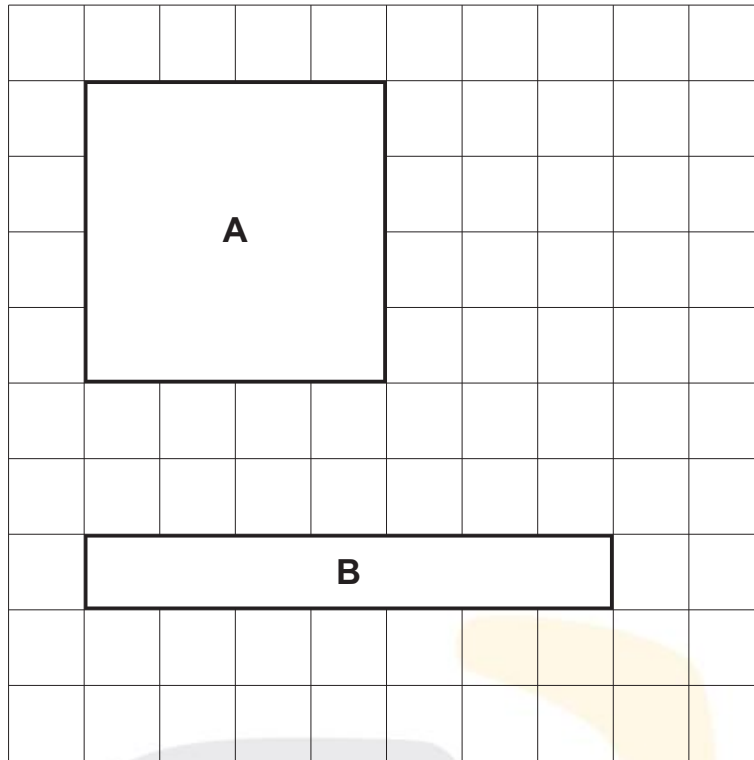
Use the symbol **<** or **=** or **>** to make each of these statements correct.
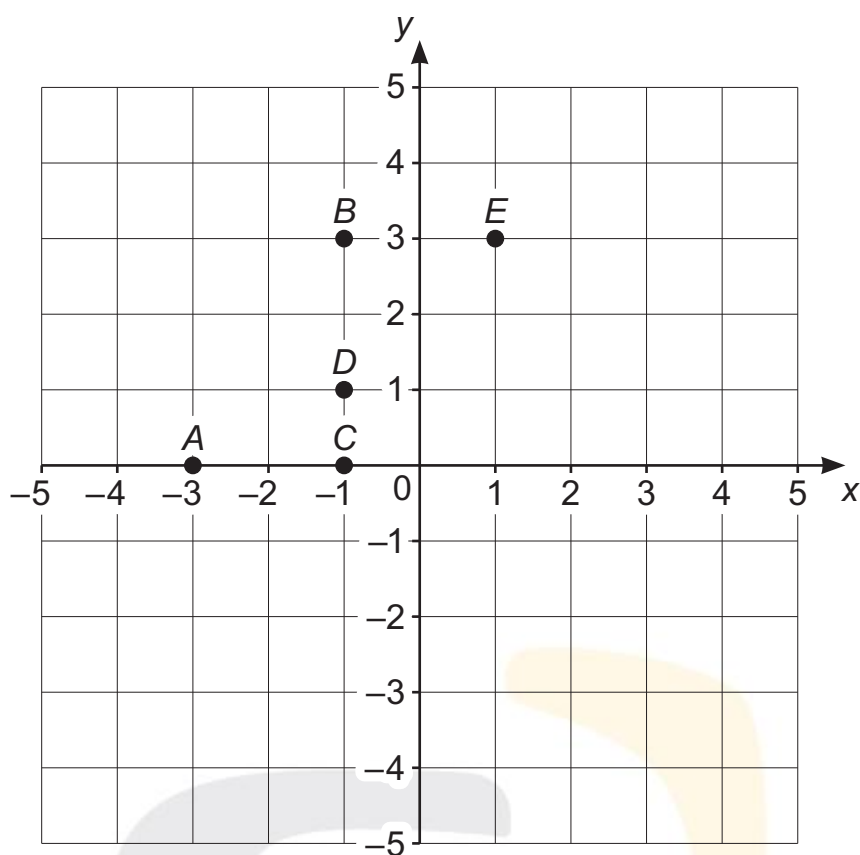
area of A ☐ area of B

perimeter of A ☐ perimeter of B

[1]

13 Write a number in the box to make the statement correct.

$$4^{\square} = 64$$

[1]

14 Here is a centimetre coordinate grid.

Mia plots points *A*, *B*, *C*, *D* and *E* on the grid.

(a) Write the coordinates of point *D*.

(.................. , ...) [1]

(b) Mia draws a circle with centre *D* and radius 2 cm.
One of the points is on the circumference of the circle.

Write the letter of the point that is on the circumference of the circle.

.... [1]

15 Angelique has a 2 litre bottle.
She pours 1 litre of water into her bottle.

Complete the sentence using **two** of these options.

bottle	water	1 litre	3 litres

The **volume** of Angelique's .... is ....
[1]

16 Here are some pairs of activities.

	Mutually exclusive	Not mutually exclusive
dream and sleep		
read and sleep		
move and sleep		
cook and sleep		

Tick (✓) to show if each pair of activities is mutually exclusive or not mutually exclusive. [1]

17 A race starts at 9 am.
Carlos crosses the finish line 4.25 hours later.

Write the time when Carlos crosses the finish line.

.... [1]

18 Draw a ring around **each** number that rounds to 5.0 when rounded to the nearest tenth.

4.45   5.50   5.01   5.11   4.95   4.55

[1]

19 Gabriella wants to find out if the children in Class R have a greater number of pets than the children in Class S.
She asks each child, 'What pets do you have?'

Explain **one** disadvantage of Gabriella's question.

....

....

.... [1]

20 A teacher wants to know if there is a connection between the number of books that a child reads and their English test score.

He asks some children how many books they read in a year.
He records their English test scores.

He creates a scatter graph from the data he collects.

Number of books read and English test scores
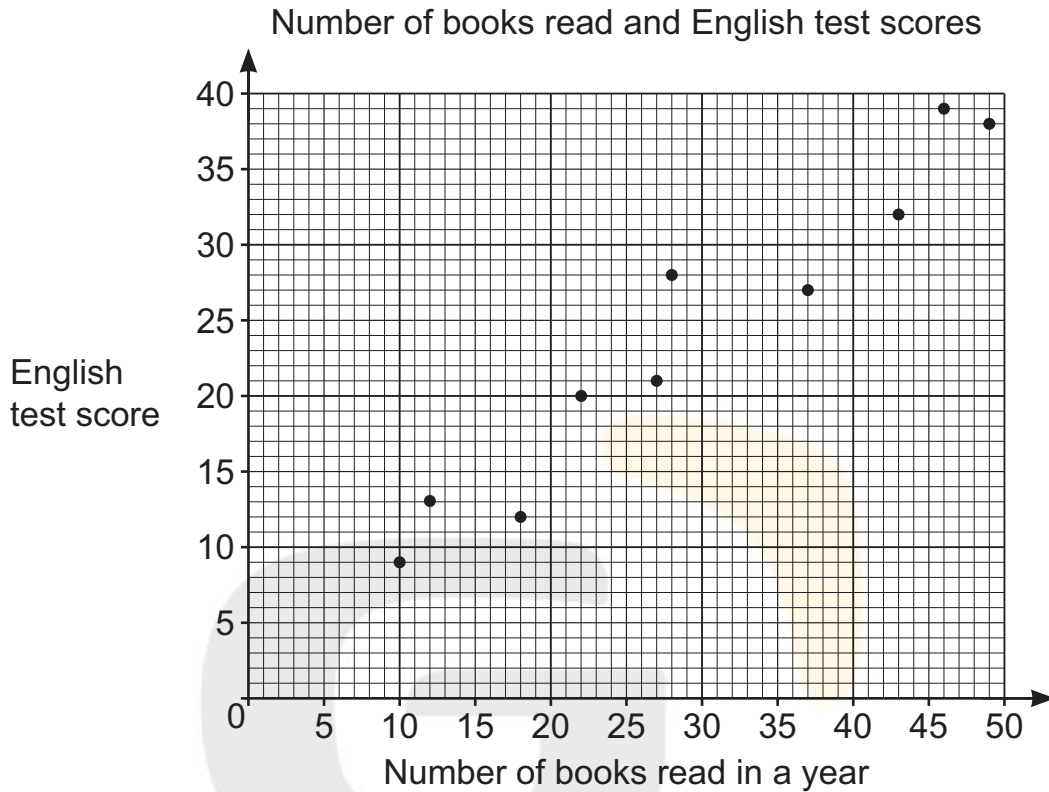
(a) Ahmed reads 30 books and scores 35 on the English test.

Plot a point on the graph to show this information. [1]

(b) Complete the sentence.

The data shows that as the number of books read in a year increases

the English test score tends to .... [1]

 [Turn over

21 Draw lines to match the values with the correct digit in the
number 5555.555

5 hundredths   5 tens   5 ones   5 thousandths

5	5	5	5	.	5	5	5

[1]

22 An orange costs 60 cents.
An apple costs 15% less.

Calculate the price of an apple.
Show your working.

.... cents [2]

23 Here is a data set.

3   5   5   5   7   8   9

Draw a line to the correct number to complete **each** sentence.

The mode is…

The median is…

The mean is…

The range is…

5

6

7

[2]

24 Here is a grid of squares.
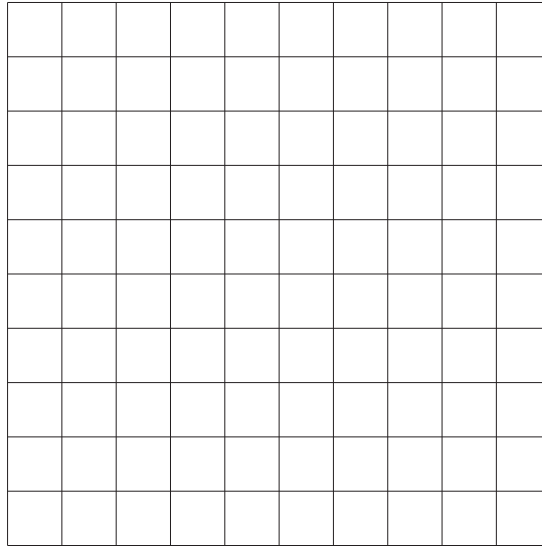
Draw a quadrilateral with exactly **one** line of symmetry.
Use a ruler. [1]

25 Eva has some $2 notes and some $5 notes.
She keeps them in two separate envelopes.

A represents the **total amount** in the envelope that contains the $2 notes.
B represents the **total amount** in the envelope that contains the $5 notes.

$$A \ + \ B \ = \ \$25$$

Write a possible pair of values for A and B.

A = $ ....

B = $ ....

[1]

26 Complete the table.

	Common factor	Common multiple
4 and 10	....	....
.... and	5	30

[2]

27 Here is a coordinate grid.
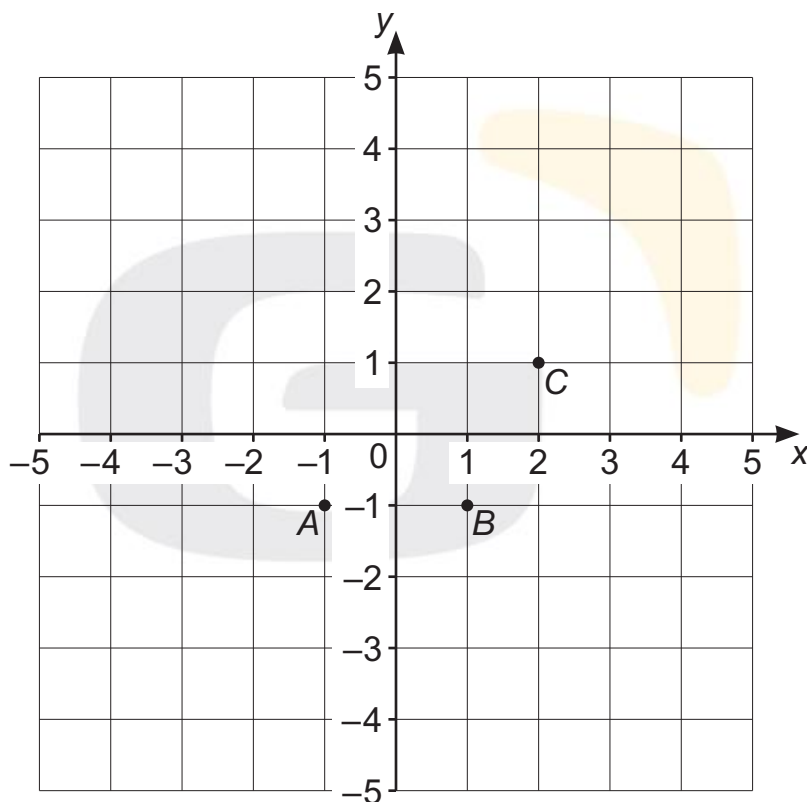
Points *A*, *B* and *C* are three vertices of a parallelogram.
Point *D* completes the parallelogram *ABCD*.

Write the possible coordinates of point *D*.

D = (................ , ...) [1]

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28 Here is a graph which shows the temperature in Quito during part of a day.

Temperature in Quito
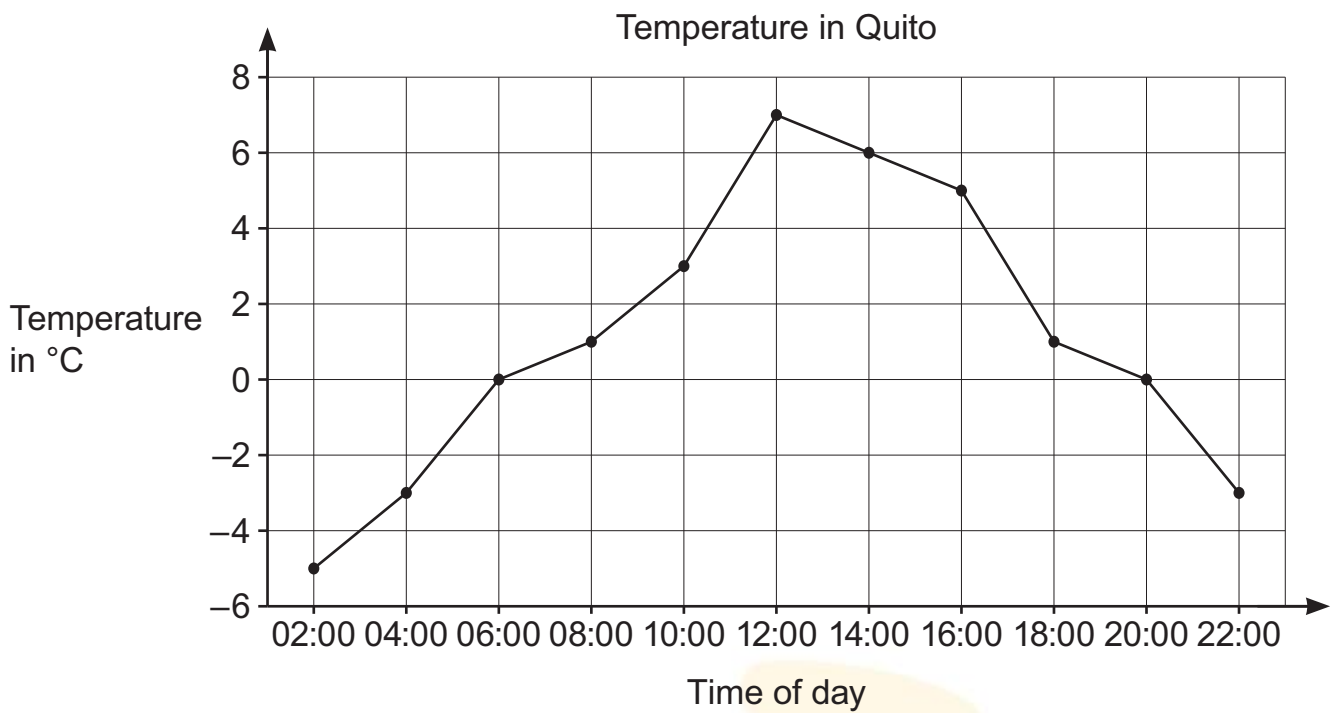
Write the number of hours it takes for the temperature to decrease from 7 °C to 0 °C.

.... hours [1]

[Turn over

29 Naomi makes a spinner.
She uses the numbers 1, 2, 3 and 4

Naomi says,

> 1 and 2 are equally likely outcomes for my spinner.
>
> 3 is the most likely outcome for my spinner.
>
> 4 is the least likely outcome for my spinner.
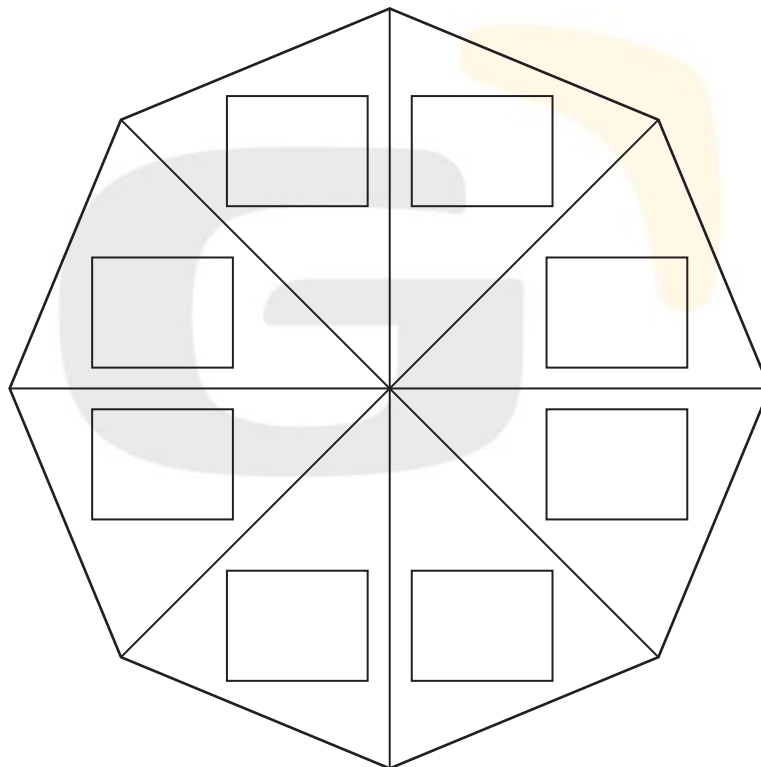
Write the numbers 1, 2, 3 and 4 in the boxes on the spinner to make Naomi's statements correct. [1]

30 Here are two shapes.
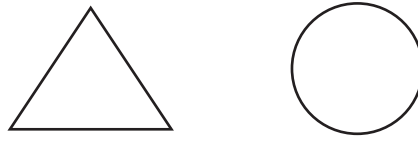
Each shape represents a whole number between 1 and 10

Yuri writes this statement.

 + + + = 27

Write a value for each shape so that Yuri's statement is correct.

△ = ...

○ = ...

[1]

31 Here are five number cards.

| 1 | 2 | 3 | 4 | 5 |
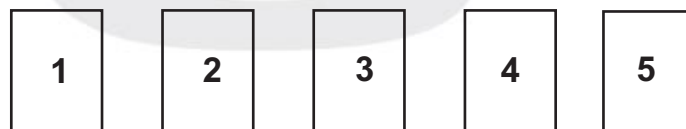
Use **three** of the number cards to make this calculation correct.
Each card can only be used once.

☐ + ☐ × ☐ = 16

[1]

 [Turn over

32 Here is a picture of a pattern.
It contains four identical circles and three identical crosses.
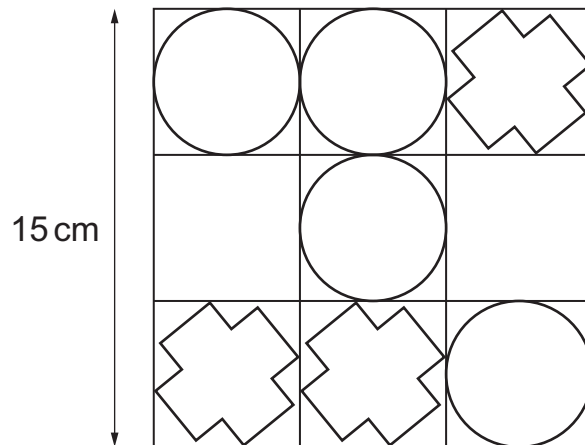
Not drawn to scale

15 cm

The side of the pattern is 15 cm.

Calculate the diameter of each circle.

.... cm [1]

33 Pierre draws triangle A on a coordinate grid.
He translates triangle A to triangle B.
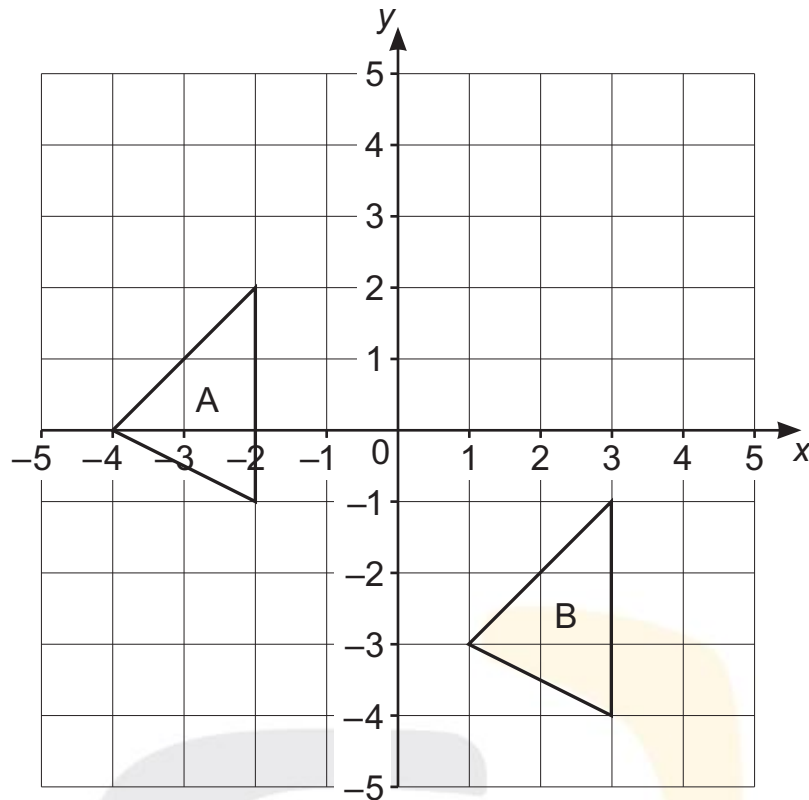
Write numbers to complete the sentence.

Pierre translates triangle A .... squares right

and .... squares down. [1]

34 Here is a grid of 1 cm squares.
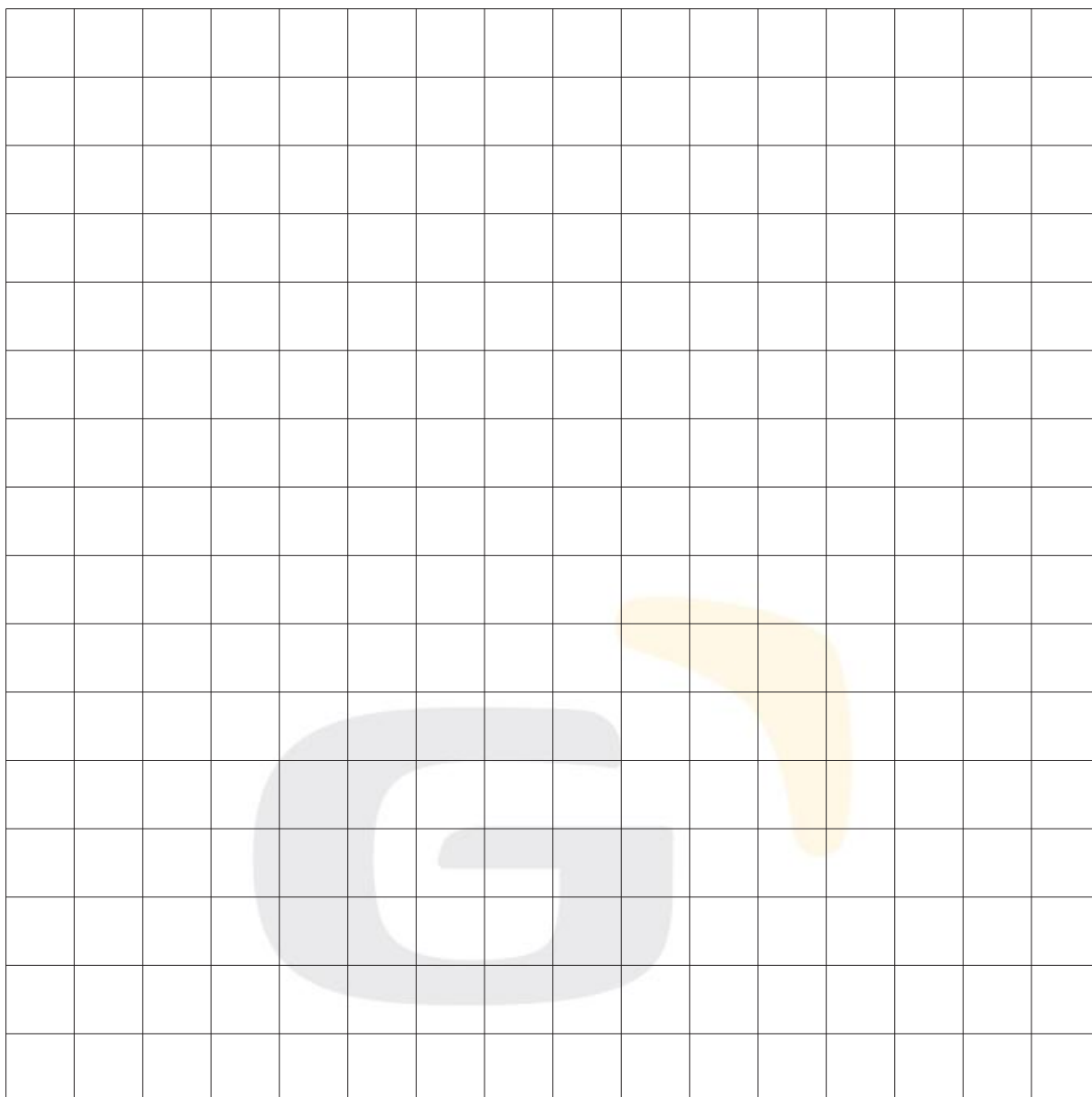
Draw on the grid a right-angled triangle that has an area of 8 cm^2. [1]