method maths

interactive practice papers

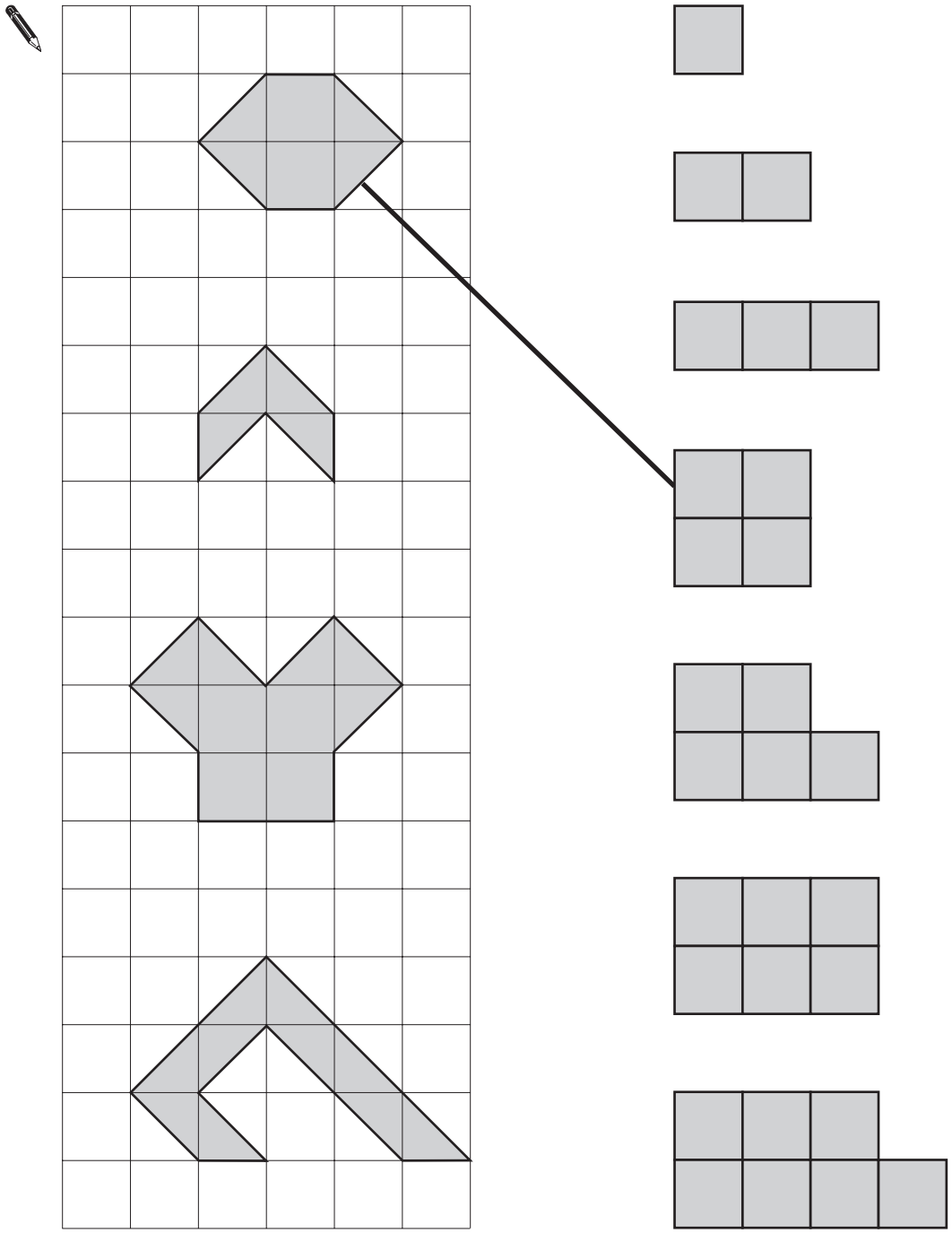
BOOSTER WORKBOOK

Measurement M7

Perimeter and area

1 Match each shape on the left to one with **equal area** on the right.

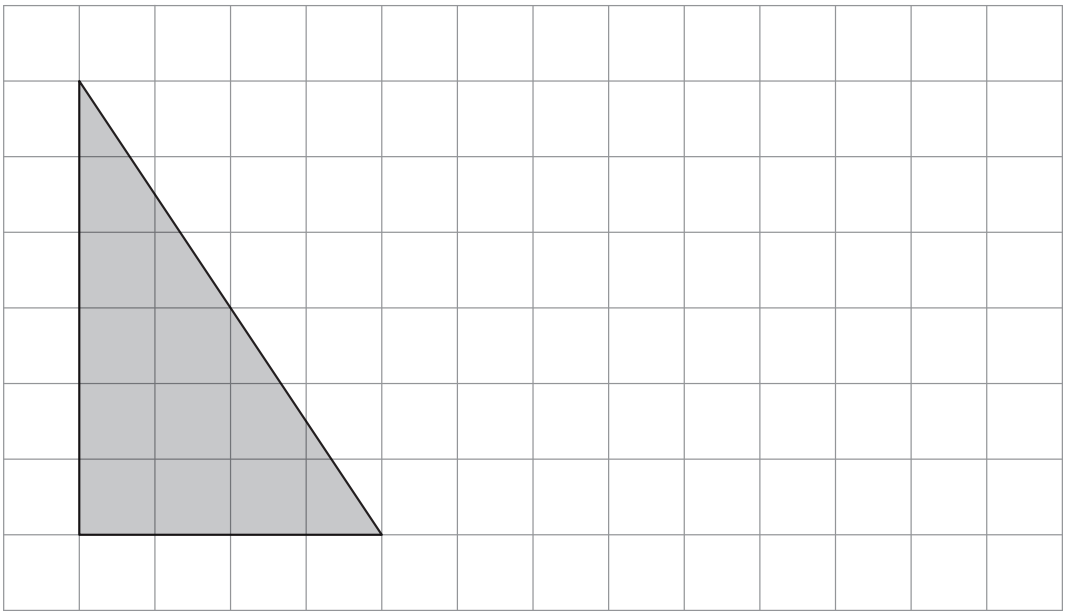
One has been done for you.



2 marks

2 Draw a rectangle on the grid that has **half** the area of the shaded triangle.

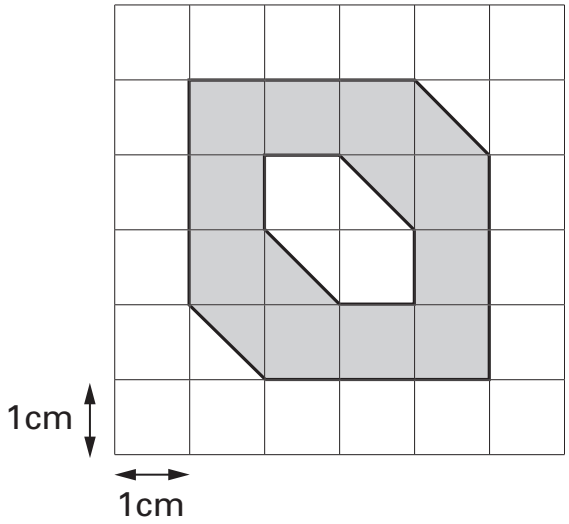
Use a ruler.



1 mark

3 Here is a 1cm square grid.

Some of the grid is shaded.



What is the **area** that is shaded?

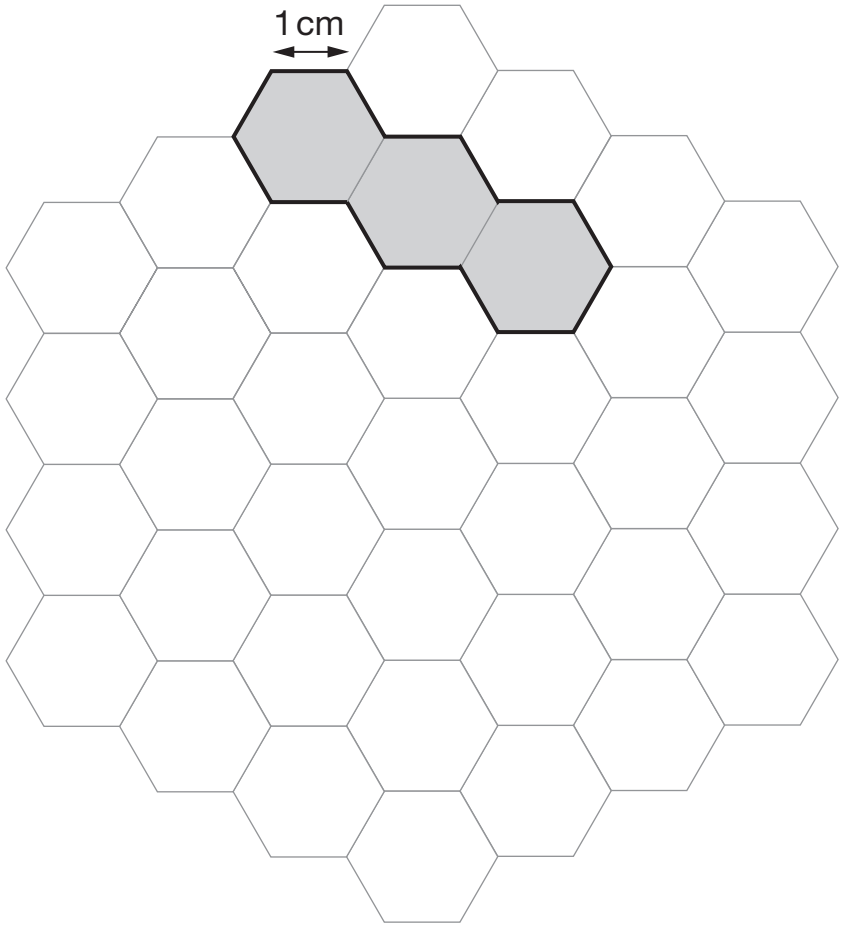
cm^2

1 mark

4 Here is a grid of regular hexagons.

The shaded shape has an area of 3 hexagons and a perimeter of 14 cm.

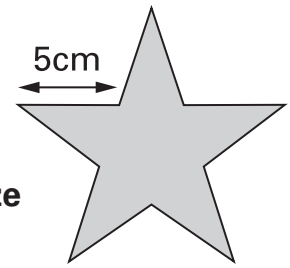
Draw another shape on the grid which has an **area** of 4 hexagons and a **perimeter** of 14 cm.



1 mark

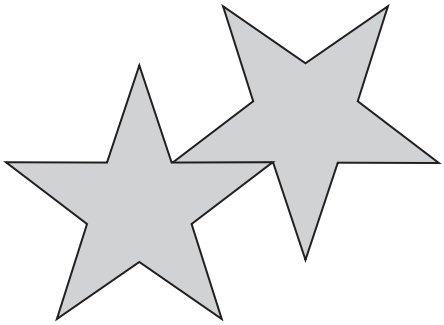
5 Millie has some star-shaped tiles.

Each edge of a tile is 5 centimetres long.



Not actual size

She puts two tiles together to make this shape.



Work out the perimeter of Millie's shape.

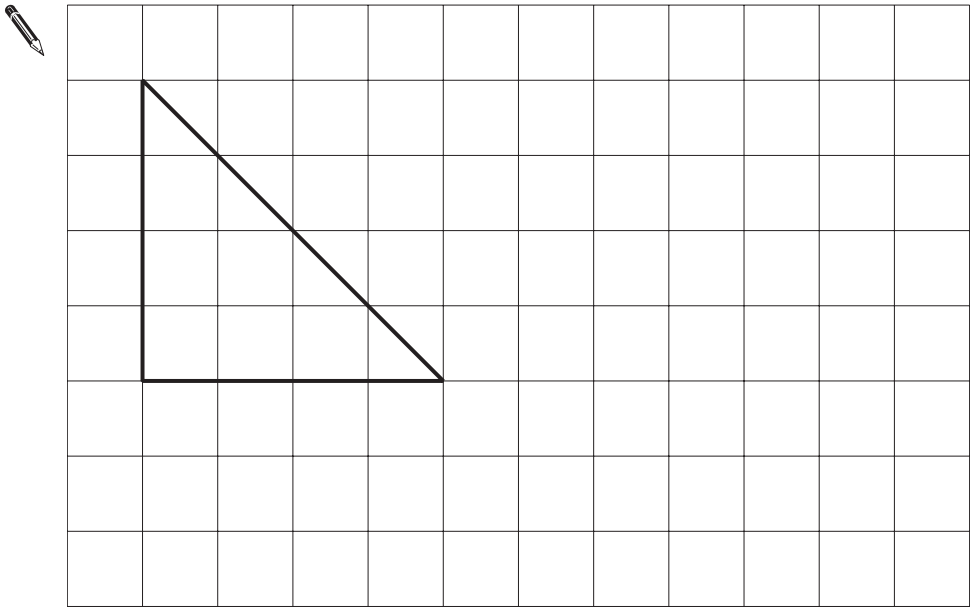
cm

1 mark

6 Here is a triangle drawn on a square grid.

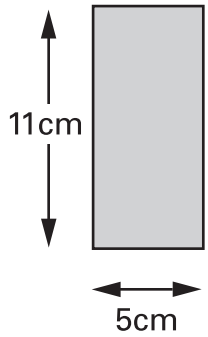
Draw a **rectangle** on the grid with the **same area** as the triangle.

Use a ruler.

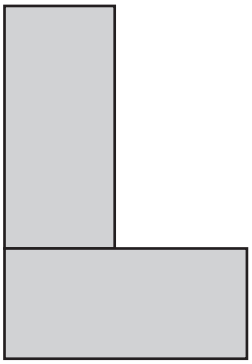


1 mark

7 Liam has two rectangular tiles like this.



He makes this L shape.

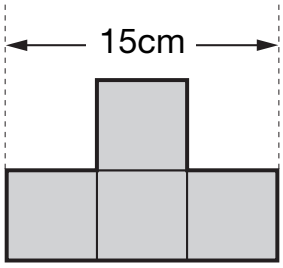


What is the **perimeter** of Liam's L shape?

cm

1 mark

8 This shape is made from 4 shaded squares.



Not actual size

Calculate the perimeter of the shape.

Show your **working**. You may get a mark.

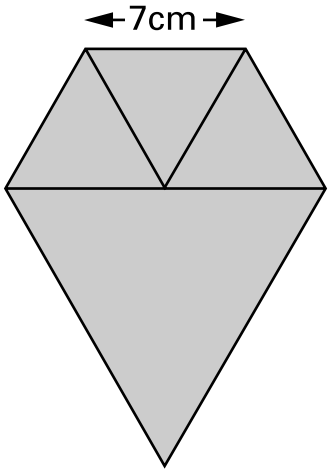
cm

2 marks

9 Lauren has **three small equilateral triangles** and **one large equilateral triangle**.

The small triangles have sides of **7 centimetres**.

Lauren makes this shape.



Not actual size

Calculate the **perimeter** of the shape.

Do **not** use a ruler.

cm

1 mark

10 An isosceles triangle has a perimeter of 12cm.

One of its sides is 5cm.

What could the length of each of the other two sides be?

Two different answers are possible.

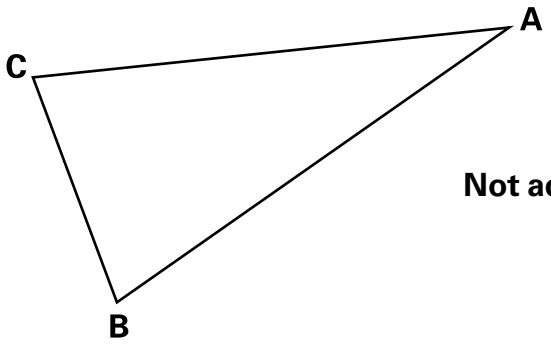
Give **both** answers.

	cm	and		**cm**
	cm	and		**cm**

2 marks

11 Triangle **ABC** is isosceles and has a perimeter of 20 centimetres.

Sides **AB** and **AC** are each **twice** as long as **BC**.



Not actual size

Calculate the length of the side **BC.**

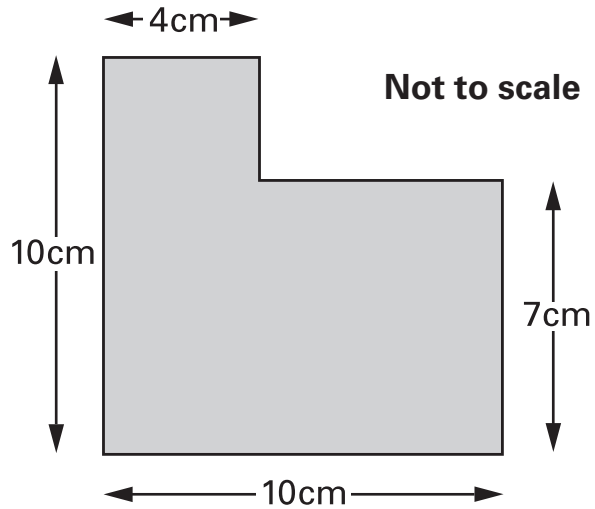
Do not use a ruler.

Show your **working**. You may get a mark.

cm

2 marks

12 What is the **area** of this shape?

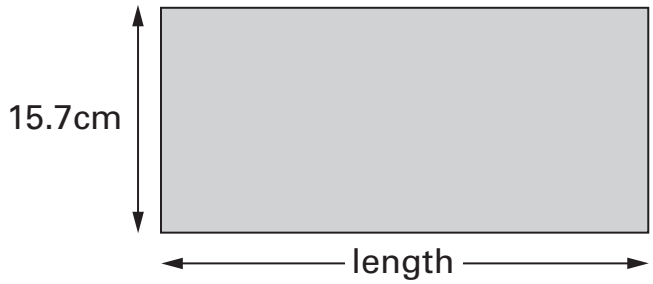


Show your **method.** You may get a mark.

cm²

2 marks

13 Here is a rectangle with a width of 15.7 centimetres.



Not actual size

The **perimeter** of this rectangle is 85 centimetres.

Calculate the length of the rectangle.

Show your **method**. You may get a mark.

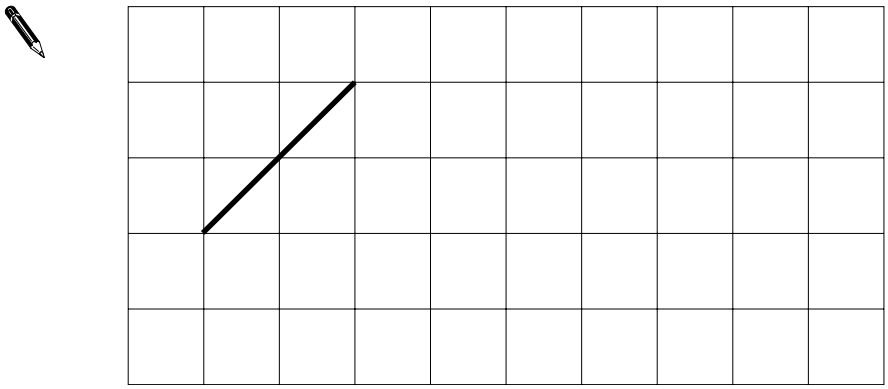
cm

2 marks

14 This is a centimetre grid.

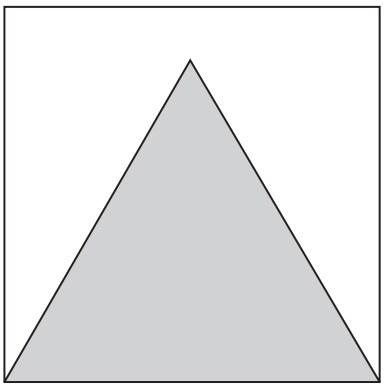
Draw **3 more lines** to make a **parallelogram** with an **area** of **10cm²**

Use a ruler.



1 mark

15 Here is an equilateral triangle inside a square.



Not actual size

The perimeter of the triangle is 48 centimetres.

What is the perimeter of the **square**?

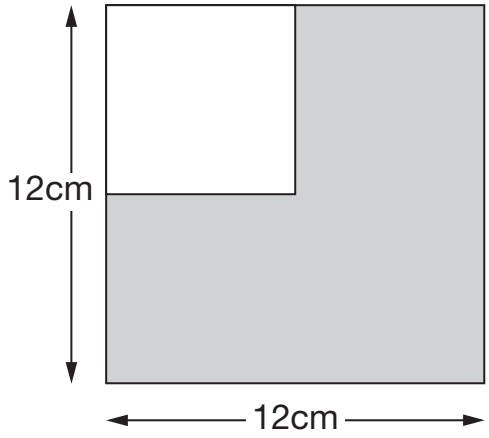
Show your **working**. You may get a mark.

cm

2 marks

16 A white square is painted in one corner of a grey square.

Each side of the white square is **half** the length of a side of the grey square.



Not actual size

What is the **area** of the grey section?

Show your **method**. You may get a mark.

cm²

2 marks