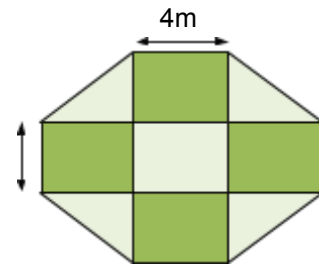


**21** This plan of a garden is made of rectangles and triangles.  
The area of each **rectangle** is **12 square metres**.

What is the area of the whole garden?  
**m<sup>2</sup>**                      **3m**



The perimeter of the garden is **34 metres**.  
What is the length of the **longest side** of each triangle?

**m**  
2 marks



17.97a

Here is a shaded shape on a 1cm square grid.

**Not to scale**

What is the **area** of the shaded shape?

1cm

1cm

**cm<sup>2</sup>**

1 mark  
18.12b



**23** Liam has two rectangular tiles like this.

He makes this L shape.

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

**cm**

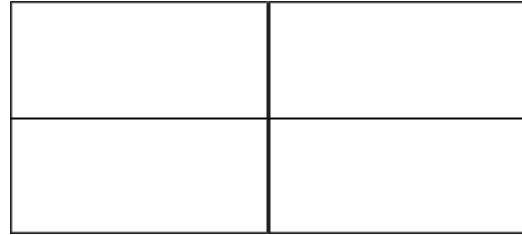


1 mark  
19.0a

24 Rebecca has rectangular tiles like this.

Not to scale

She makes a larger rectangle using 4 of the tiles.



What is the **area** of the larger rectangle?



**cm<sup>2</sup>**

2

marks

25 This shape is made from 4 shaded squares.

Calculate the **perimeter** of the shape.

2 marks  
19.6a

26 On the grid draw a **triangle** with the **same area** as the shaded rectangle.

Use a ruler.

1 mark  
19.99a



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

**Not actual size**

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

12cm

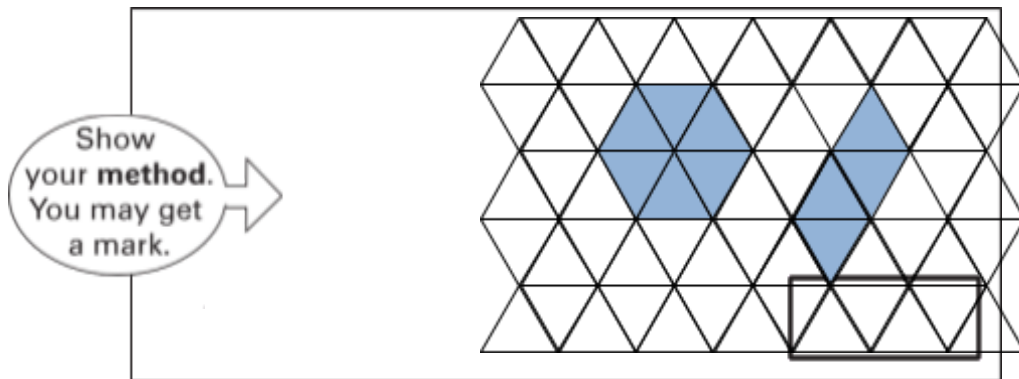
What is the **area** of the grey section?

12cm

cm<sup>2</sup>

2 marks  
26.7b

**28** What is the **ratio** of the area of the parallelogram compared to the area of the hexagon?



:

1 mark

**29** Work out the **area** of each shape.

(a) Rectangle



cm<sup>2</sup>



(b) Triangle



**cm<sup>2</sup>**

2 marks

**30** 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  
 15.6b

**31** Here are two similar triangles.  
 The white triangle sides are **half** the length of the grey triangles.



What is the **ratio** of the large triangles area compared to the small triangles area?

:



2

**32** Kim has some rectangular tiles.  
 Each one is **4 centimetres** by **9 centimetres**.

She makes a design with them.

Calculate the **width**, **height** and **perimeter** of her design.

width                      height                                      perimeter

3 marks  
 16.0a

33 Kate has some rectangles.

They each measure 16 centimetres by 50 centimetres.


Not actual size

She makes this design with four of the rectangles.

Work out the lengths **x** and **y** and the **perimeter** of the design.

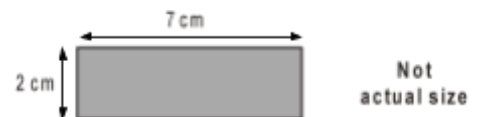
**x** =  **cm**

**y** = 

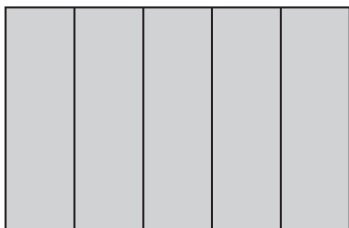
**perimeter** =  **cm**

34 Lara has some identical rectangles.

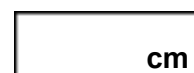
They are 7 centimetres long and 2 centimetres wide.



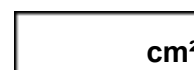
She uses **five** of her rectangles to make the large rectangle below.



What is the **perimeter** of the large rectangle?

 **cm**

What is the **area** of the large rectangle?

 **cm<sup>2</sup>**







