

Q1.

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

One has been done for you.

The grid on the left contains the following shapes (from top to bottom):

- A diamond shape with a horizontal width of 2 units and a vertical height of 2 units. It is shaded gray.
- A shape consisting of two right-angled triangles meeting at their hypotenuses, forming a larger triangle with a base of 2 units and a height of 2 units. It is shaded gray.
- A shape consisting of two right-angled triangles meeting at their hypotenuses, forming a larger triangle with a base of 2 units and a height of 2 units. It is shaded gray.
- A large right-angled triangle with a base of 4 units and a height of 4 units. It is shaded gray.

The shapes on the right are:

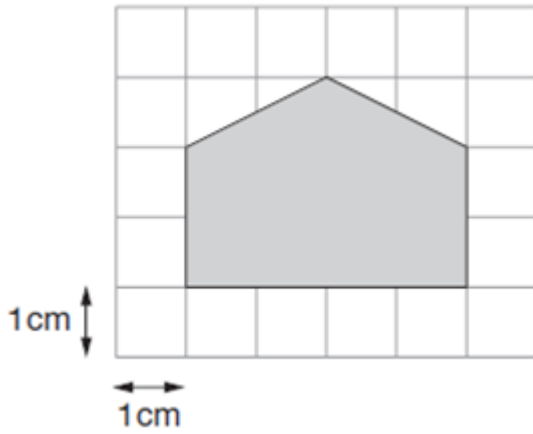
- A 1x1 square.
- A 1x2 rectangle.
- A 1x3 rectangle.
- A 2x2 square.
- A 2x3 L-shaped polygon.
- A 2x3 rectangle.
- A 2x4 L-shaped polygon.

A line connects the top-left diamond shape to the 2x2 square.

2 marks

Q2.

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



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

1 mark

Q3.

The area of a rectangle is 16 cm².

One of the sides is 2 cm long

What is the perimeter of the rectangle?

1 mark

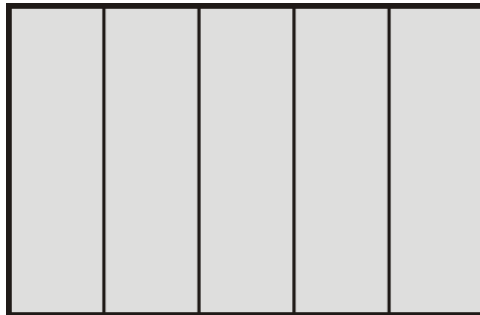
Q4.

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

1 mark

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

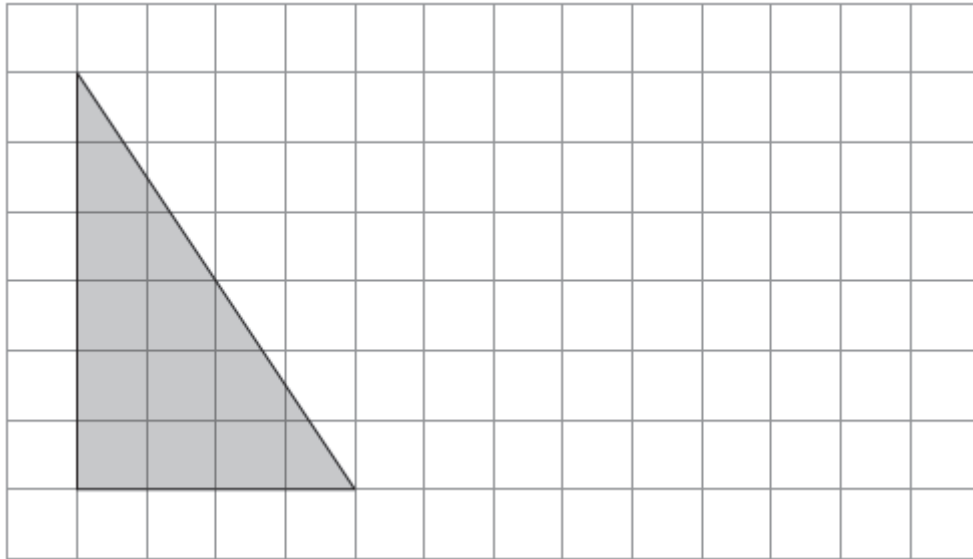
cm

1 mark

Q5.

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

Use a ruler.



1 mark

Q6.

The area of a rugby pitch is 6,108 square metres.

A football pitch measures 112 metres long and 82 metres wide.

How much larger is the area of the football pitch than the area of the rugby pitch?

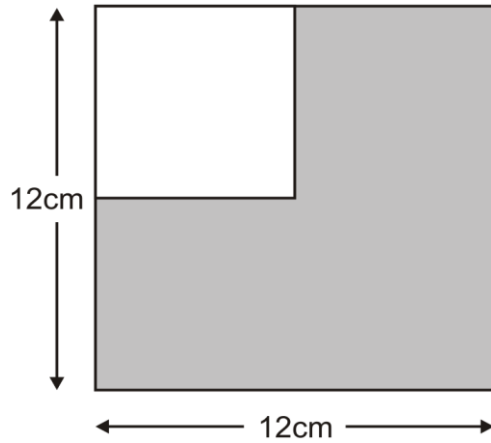
Show your method

square metres

Q7.

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.



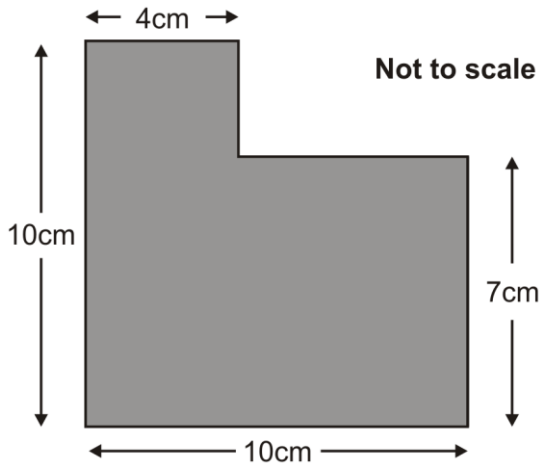
Not actual size

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

Show your method

cm²

Q8. What is the **area** of this shape?

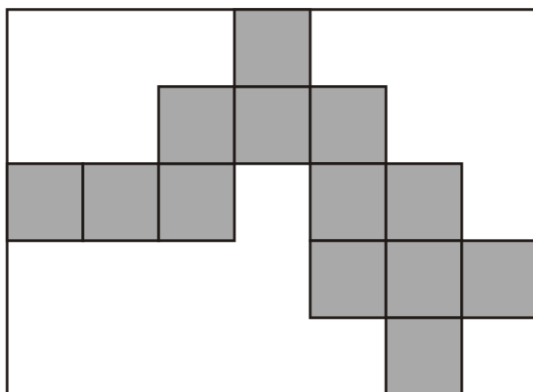


Show
your
method

cm²

2 marks

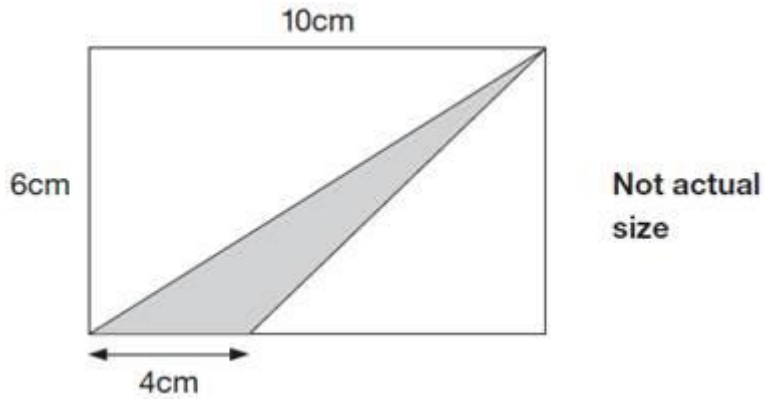
Q9. Here is a rectangle with 13 identical shaded squares inside it.



What fraction of the rectangle is shaded?

Q10.

The diagram shows a shaded triangle inside a rectangle.



What is the area of the shaded triangle?

Show your method

cm²

2 marks