Here is a 1 cm square grid. Some of the grid is shaded.
[2018]


What is the area of the shaded shape?

Here is a 1 cm square grid. Some of the grid is shaded.


What is the area of the shaded shape?

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

One has been done for you.
$\geqslant$



## What is the area of the shaded space?



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


What is the area of the shaded shape?

Here are some shapes on a 1 cm square grid.
[2011]


What is the perimeter of shape $A$ ?


Write the letter of the shape that has the smallest area.

$\qquad$

Here are five shapes on a regular grid.


Which shape has the longest perimeter?

This shape is made from 4 shaded squares.

Not
actual size

Calculate the perimeter of the shape.

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 .


Millie has some star-shaped tiles.
[2004]
Each edge of a tile is 5 centimetres long.


She puts two tiles together to make this shape.


Work out the perimeter of Millie's shape.



What is the area of the parallelogram?

This shape is made out of four identical curves.


## Not

actual
size

The perimeter of the shape is 28 centimetres.

A new shape is made out of curves of the same size.


What is the perimeter of the new shape?


Liam has two rectangular tiles like this.
[2000]


He makes this L shape.


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

## cm

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?


Lara has some identical rectangles.
[2009]
They are 7 centimetres long and 2 centimetres wide.
7 cm

Not actual size

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


What is the perimeter of the large rectangle?


What is the area of the large rectangle?


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.

Here is a triangle on a 1 cm square grid.
[Extra]


What is the area of the triangle?

A square tile measures 20 cm by 20 cm .

## A rectangular tile is 3 cm longer

 and 2 cm narrower than the square tile.

What is the difference in area between the two tiles?


19
[2010]


The perimeter of this rectangle is 50 centimetres.

## Calculate the length of the rectangle.





This shape is drawn on a centimetre square grid.
[Extra]


Estimate the area of the shape.
$\mathrm{cm}^{2}$

22 Chen has some right-angled triangular tiles.


## Not actual size

He makes this shape with four of his triangular tiles and three square tiles.


What is the perimeter of Chen's shape?


23 The perimeter of a square is 72 centimetres.


## Not actual size

The square is cut in half to make two identical rectangles.


What is the perimeter of one rectangle?


## 24

The perimeter of a rectangle is one metre.
Each longer side is 36 centimetres.
What is the length of each shorter side?


25
On the centimetre square grid below, draw a parallelogram that has an area of $8 \mathrm{~cm}^{2}$
[Extra]


26 A white square is painted in one corner of a grey square.
[2007]
Each side of the white square is half the length of a side of the grey square.


What is the area of the grey section?


On the centimetre square grid below, draw a triangle that has an area of $5 \mathrm{~cm}^{2}$
[Extra]


28 Twelve rectangles, all the same size, are arranged to make a square, as shown in the diagram.
[2000]


Calculate the area of one of the rectangles.


Calculate the area of the parallelogram?
[Extra]


$$
\mathrm{cm}^{2}
$$

Here is an equilateral triangle inside a square.
[2004]


## Not actual size

The perimeter of the triangle is 48 centimetres.
Calculate the perimeter of the square?

[Extra]

$\square$

## 32

The diagram shows 4 identical shaded triangles in a rectangle.
[2001]


Not actual size

The rectangle measures 36 centimetres by 24 centimetres.
Calculate the area of one shaded triangle.


Jody has some triangular tiles like this:
[Extra]


I use two of these tiles to make different shapes.
For each shape, work out its perimeter.


The perimeter of the rectangle is:


The perimeter of the isosceles triangle is:


