## PERIMETER AND AREA

CONTENT DOMAIN REFERENCES: M7



## 1

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



2 3 6 5 9 8 1 10 12 11 15 18 3 14 16 





[1 mark]

2

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

[2005]



## What is the area of the shaded shape?



## One has been done for you.

3



<sup>[2</sup> marks]



[1 mark]





6



What is the perimeter of shape A?



Write the letter of the shape that has the <b>smallest area</b> .	

C

[2 marks]





This shape is made from 4 shaded squares.

[2006]



[1 mark]

Here is a grid of regular hexagons.

[2007]

9

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.



14 MEXAGONS MAVE A PERIMETER OF 4×6=24 WE NEED TO HAVE 10 CM LESS So 5 SIDES MUST BE TOUCHING EACH TOUCHING HEXAGON LOSES' A SIDE!







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.

[OR IOX7 ]]





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



[2 marks]

15

16 [2001] Lauren has three small equilateral triangles and one large equilateral triangle.

The small triangles have sides of 7 centimetres.

Lauren makes this shape.



- A square tile measures 20cm by 20cm.
- [2017] A rectangular tile is 3cm **longer** and 2cm **narrower** than the square tile.

18



What is the difference in area between the two tiles?



[3 marks]



The perimeter of this rectangle is 50 centimetres.





[2 marks]

21

This shape is drawn on a centimetre square grid.

[Extra]



NOTE THAT THE 18, 19 AND 19' ARE ACTUALLY A LITTLE BIT MORE THAN THIS!

Estimate the area of the shape.



22

[2015]



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



What is the perimeter of Chen's shape?







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

26

[2007] Each side of the white square is half the length of a side of the grey square.







Calculate the area of one of the rectangles.

WIDTH	F	5)	AREA	4 =	15 x S	
LENGTH	40	155	4	F	75	
					75	cm <sup>2</sup>



[2 marks]





