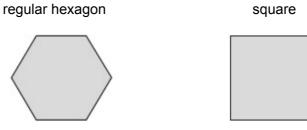
These two shapes have the **same** perimeter.

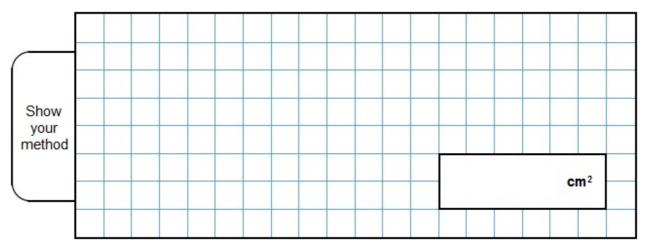
1



Not actual size

The length of each side of the **hexagon** is **8** centimetres.

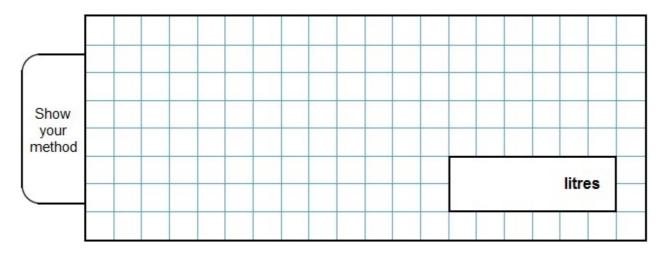
Calculate the area of the square.



2 marks

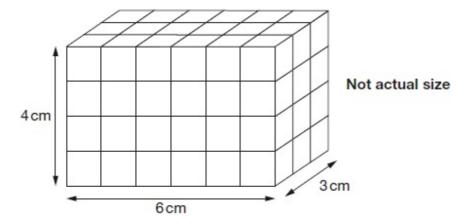
A machine pours 250 millilitres of juice every 4 seconds.

How many litres of juice does the machine pour every minute?



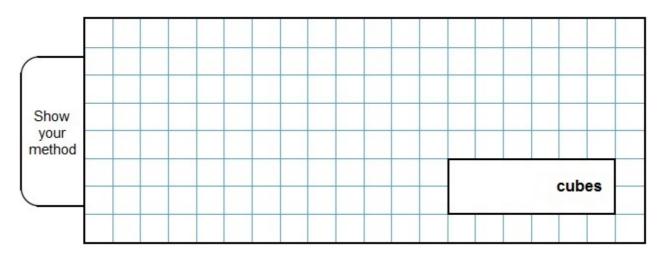
2 marks

Fern House School



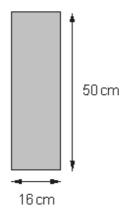
Stefan makes a cuboid that is 5 cm longer, 5 cm taller and 5 cm wider than Amina's cuboid.

What is the difference between the number of cubes in Amina's and Stefan's cuboids?



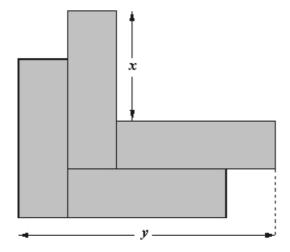
Kate has some rectangles.

They each measure 16 centimetres by 50 centimetres.



Not actual size

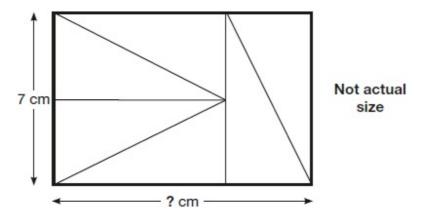
She makes this design with four of the rectangles.



Work out the lengths x and y.

1 mark

Six identical right-angled triangles are arranged to make a rectangle.



Calculate the **length** of the rectangle.

5

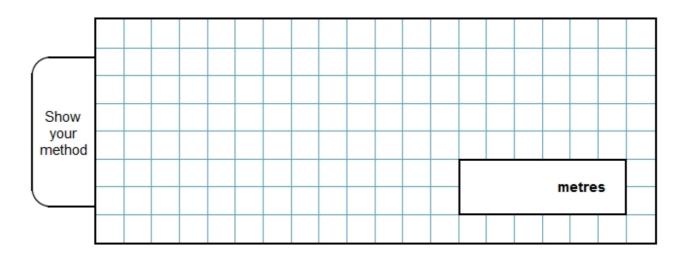




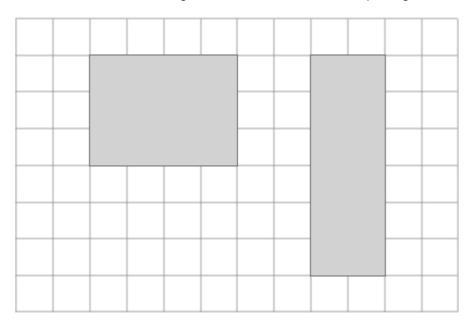
Holly makes a straight line of 5p coins worth £10



How long is Holly's line? Give your answer in **metres**.



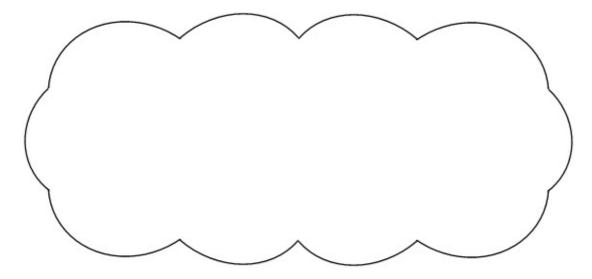
Look at the shaded rectangles drawn on a centimetre square grid.



Sam says,

"The two rectangles have the same area as each other and the same perimeter as each other"

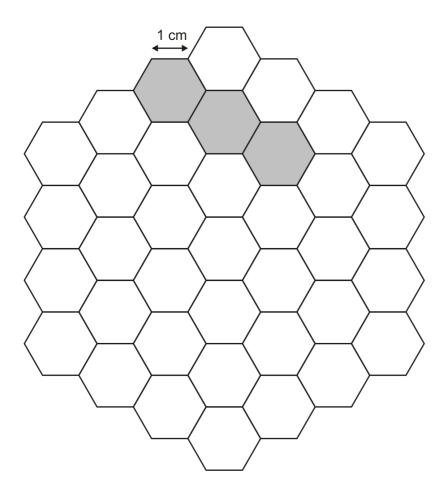
Is Sam correct? Explain how you know.



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.

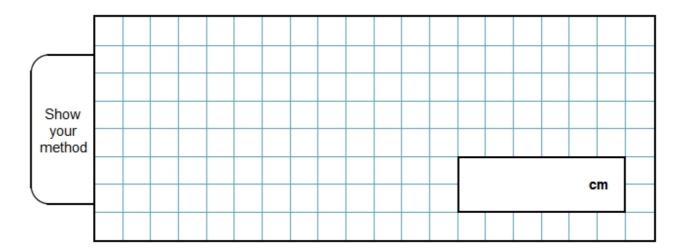


9 Rebecca has rectangular tiles like this. 20cm -10cm Not to scale She makes a larger rectangle using 4 of the tiles. What is the area of the larger rectangle? cm² 1 mark 10 The area of this square is 36 cm². Not actual size

The square is cut into quarters to create 4 identical rectangles.

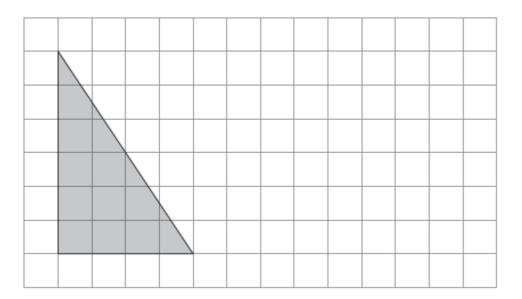


What is the **perimeter** of **one** of the small rectangles?



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

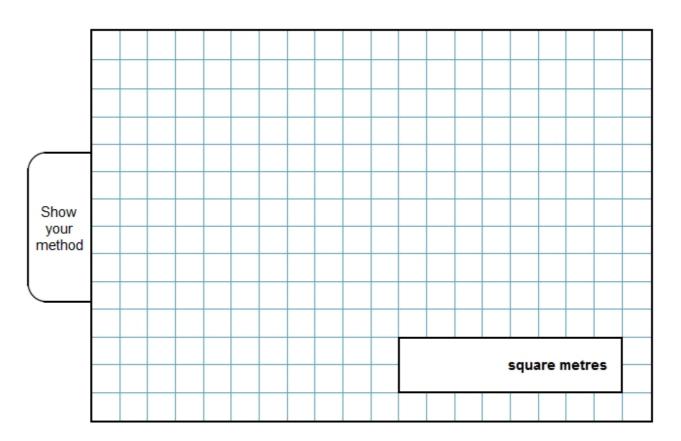
Use a ruler.



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

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

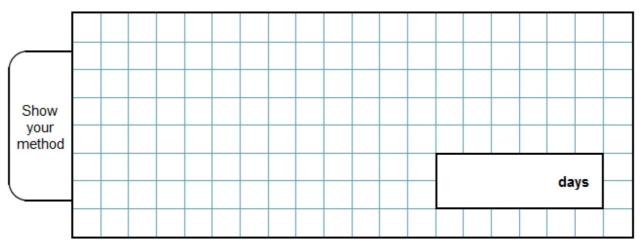
How much larger is the area of the football pitch than the area of the rugby pitch?





Every day Maria uses 50 g of oats to make porridge.

How many days does the packet of oats last?



Miss Mills is making jam to sell at the school fair.

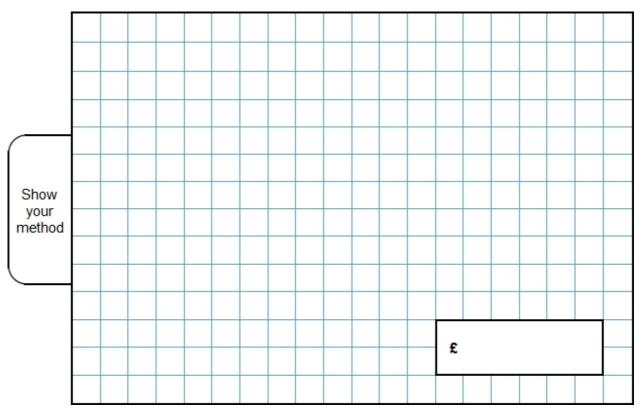
Strawberries cost £7.50 per kg.

Sugar costs 79p per kg.

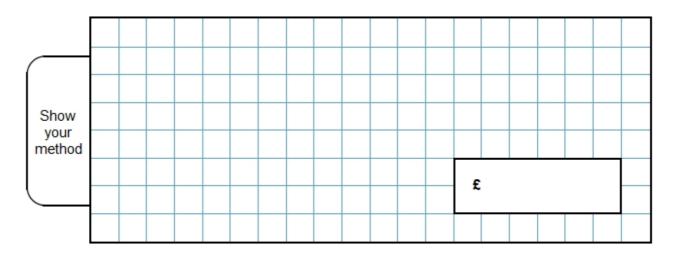
10 glass jars cost £6.90

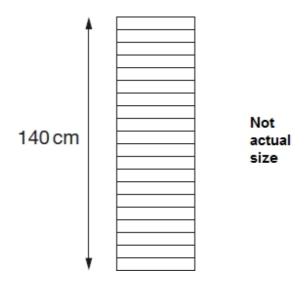
She uses 12 kg of strawberries and 10 kg of sugar to make 20 jars full of jam.

Calculate the total cost to make 20 jars full of jam.



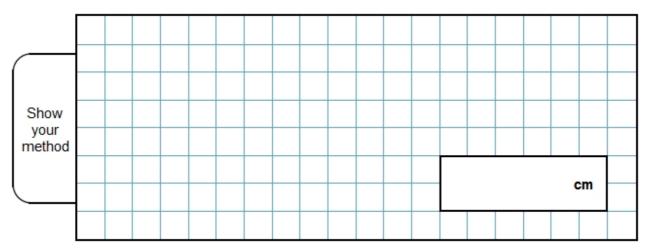
What is the cost of **half a kilogram** of gold?



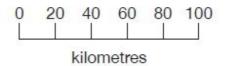


Stefan takes three boxes off the top.

How tall is the stack now?

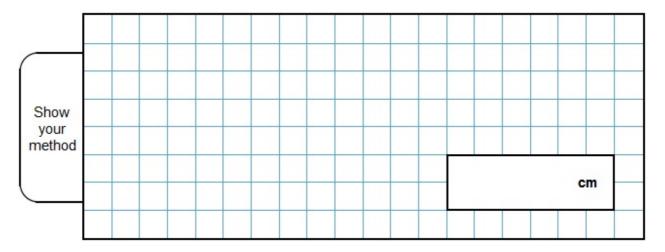


On a map, 1 cm represents 20 km.



The distance between two cities is 250 km.

On the map, what is the distance between the two cities?



2 marks

18

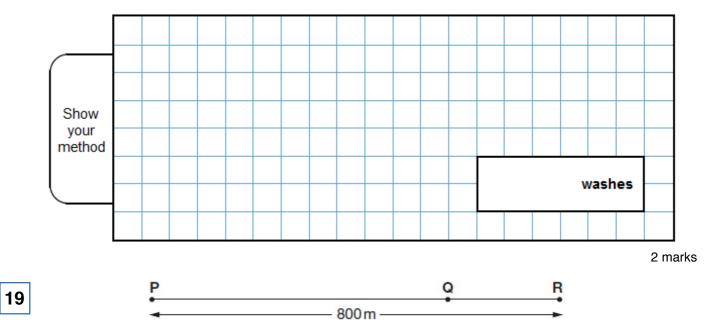
A box contains 2.6 kg of washing powder.



Jack uses 65 grams of powder for each wash.

He uses all the powder.

How many washes did Jack do?

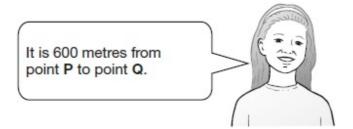


Not to scale

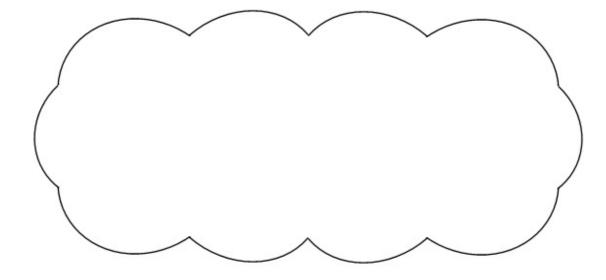
The distance from point **P** to point **R** is 800 metres.

The distance from point ${\bf P}$ to point ${\bf Q}$ is ${\bf 4}$ times the distance from point ${\bf Q}$ to point ${\bf R}$.

Olivia says,

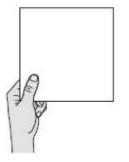


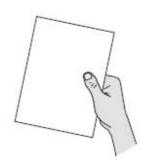
Explain why Olivia is **not** correct.



1 mark

Fern House School





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?

