

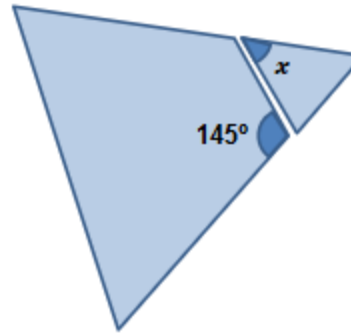
Here is a square.



1

Inside the square is an equilateral triangle.
The perimeter of the triangle is 54cm.
Find the perimeter of the square.

Adam has an equilateral triangle.
He cuts off a corner of the triangle.
Here are the two pieces.



2

Find the size of the angle marked x .

10% of $A = B$

5% of $B = C$

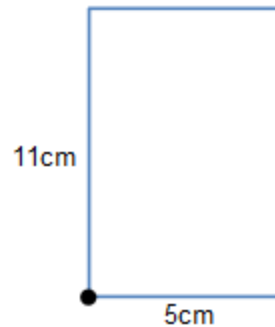
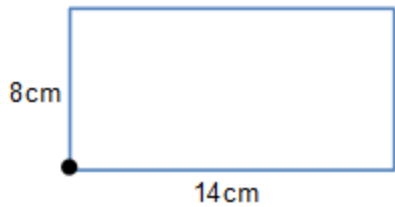
20% of $C = D$

3

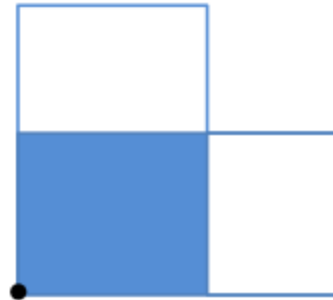
If $A = 6000$ what is the value of D

4

Here are two rectangles.



The two rectangles are put on top of each other.
They are lined up so the black circles overlap.
The shaded area shows where the two overlap.



Find the area of the shaded region.

The perimeter of the hexagon is 42cm.



Four of these hexagons are put together to make the following shape.



What is the perimeter of the new shape?

5