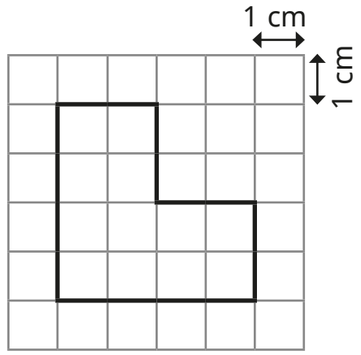
Area of compound shapes

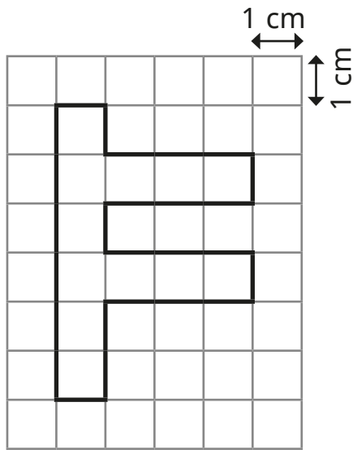
1 On the grids, the area of each square is 1 cm^2

Calculate the area of each shape.

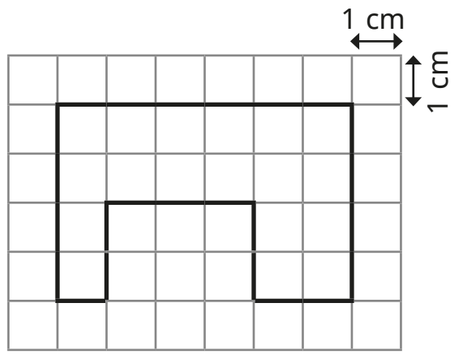
a)



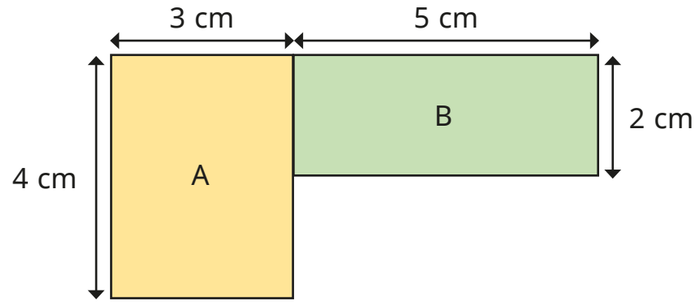
c)



b)



2 Here is a compound shape made from two rectangles.



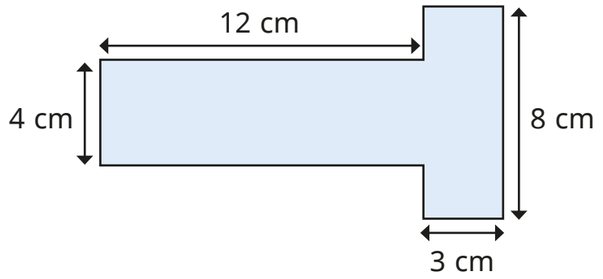
a) Work out the area of rectangle A.

b) Work out the area of rectangle B.

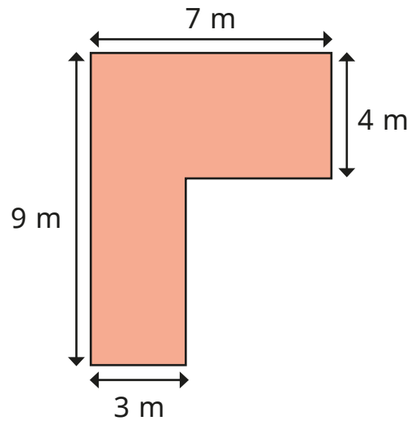
c) Work out the area of the compound shape.

3 Work out the area of each of the rectilinear shapes.

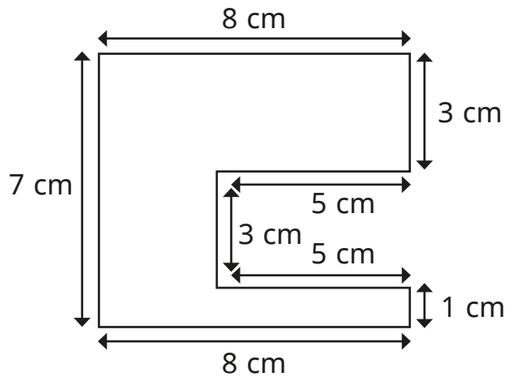
a)



b)



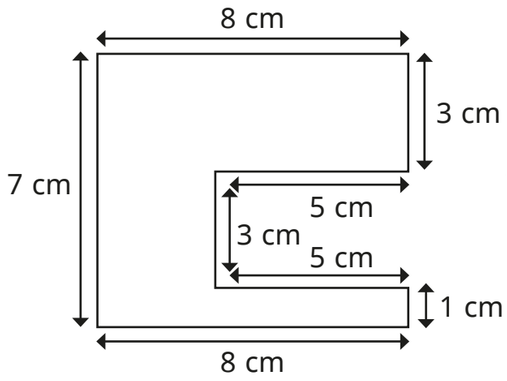
4 Here is a rectilinear shape.

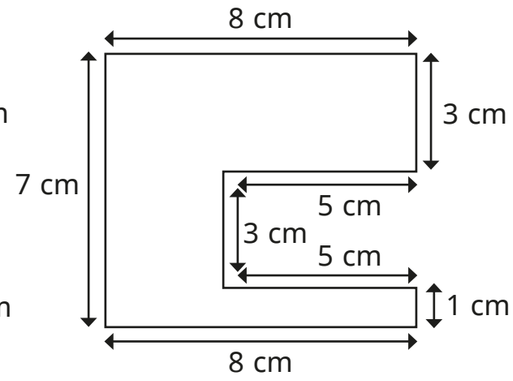


a) Work out the area of the shape.

Draw on the shape to show how you partitioned it.

b) Show two other ways that you can partition the shape.





c) Alex has calculated the area of the same shape.

$8 \times 7 = 56$

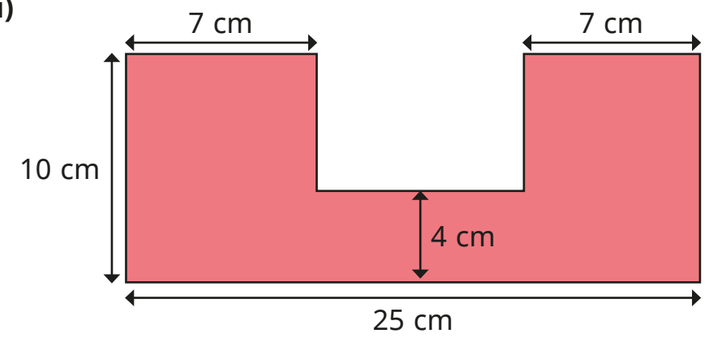
$5 \times 3 = 15$

$56 - 15 = 41 \text{ cm}^2$

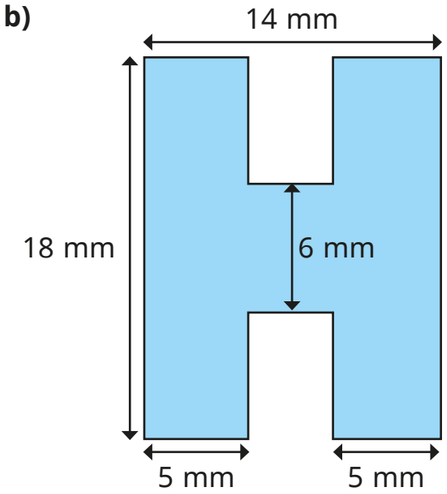
Explain the method Alex has used.

5 Calculate the areas of the compound shapes.

a)



b)



6 The area of this shape is 83 cm^2

Work out the perimeter of the shape.