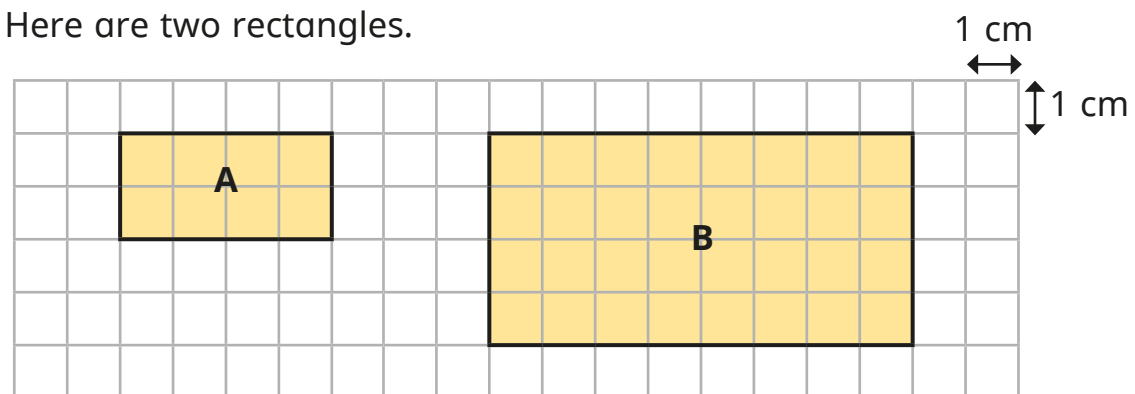


Similar shapes

1 Here are two rectangles.



a) What is the length and width of rectangle A?

length cm width cm

b) What is the length and width of rectangle B?

length cm width cm

c) Explain why rectangles A and B are similar.

d) Draw another rectangle that is similar to rectangle A.



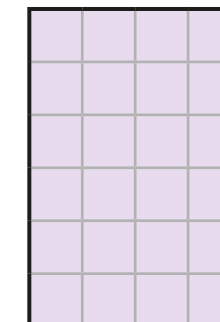
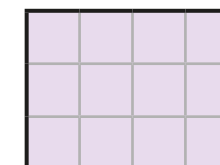
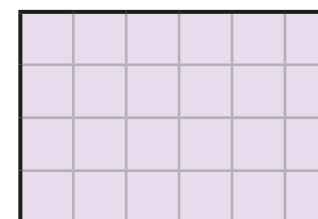
Compare answers with a partner.



2 Here is rectangle C.



Tick the rectangle that is not similar to rectangle C.

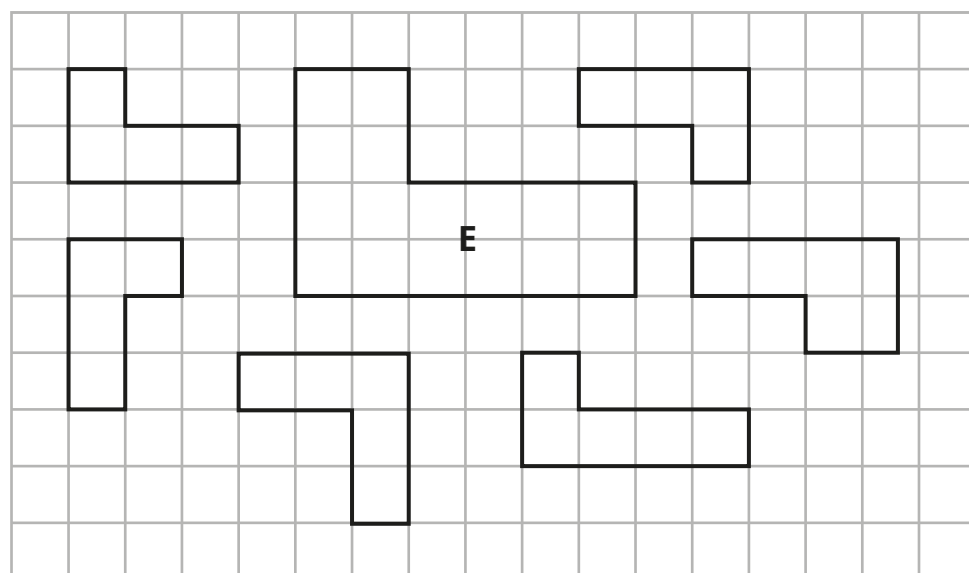


Explain your answer.

3 Draw two rectangles that are similar to shape D.



- 4 Tick the shapes that are similar to shape E.

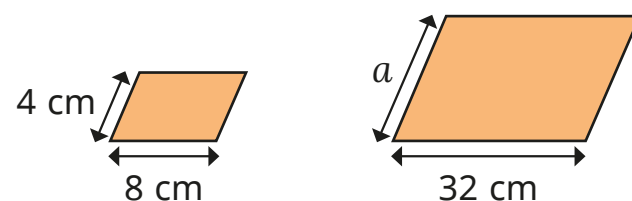


How did you decide which shapes to tick?



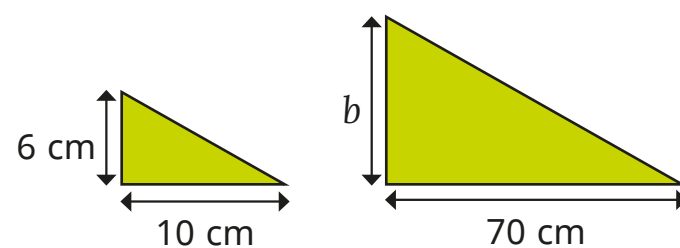
- 5 The two shapes in each pair are similar.
Work out the lengths marked with letters.

a)



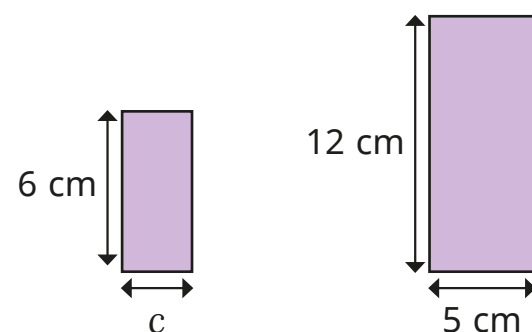
$$a = \boxed{}$$

b)



$$b = \boxed{}$$

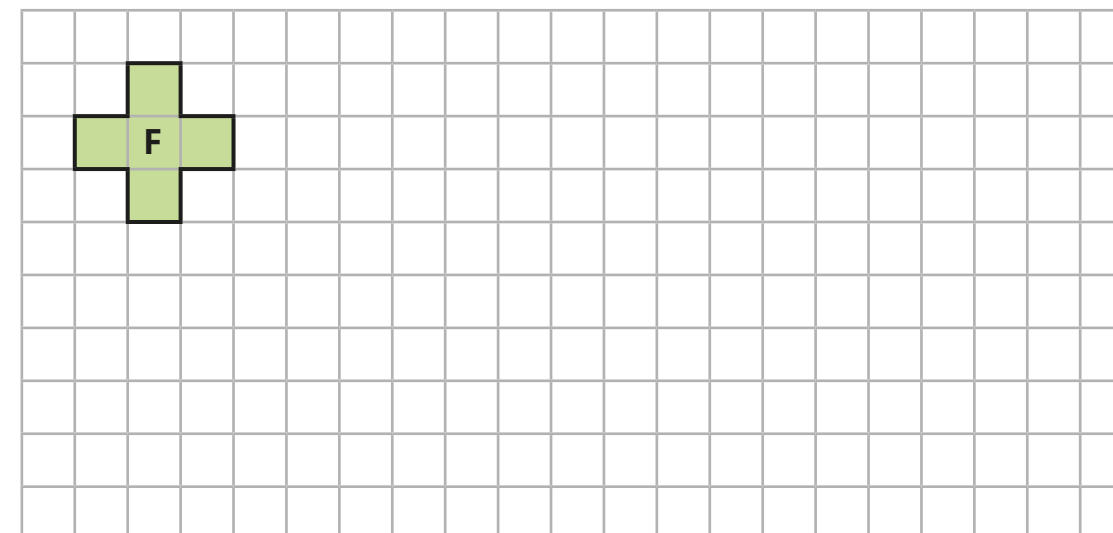
c)



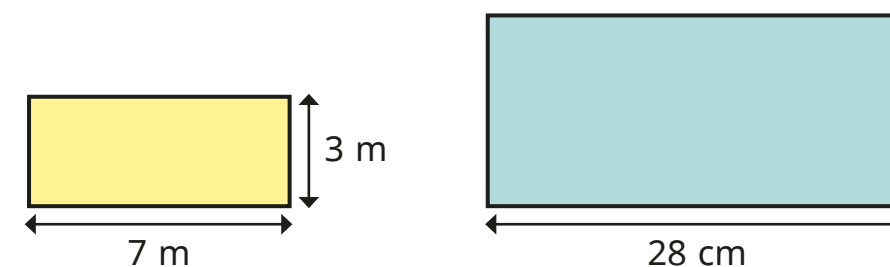
$$c = \boxed{}$$



- 6 Draw two shapes that are similar to shape F.



- 7 These two shapes are similar.



- a) Work out the perimeter of the smaller rectangle.

- b) Work out the perimeter of the larger rectangle.

What do you notice about your answers in part a) and part b)?
Discuss it with a partner.

