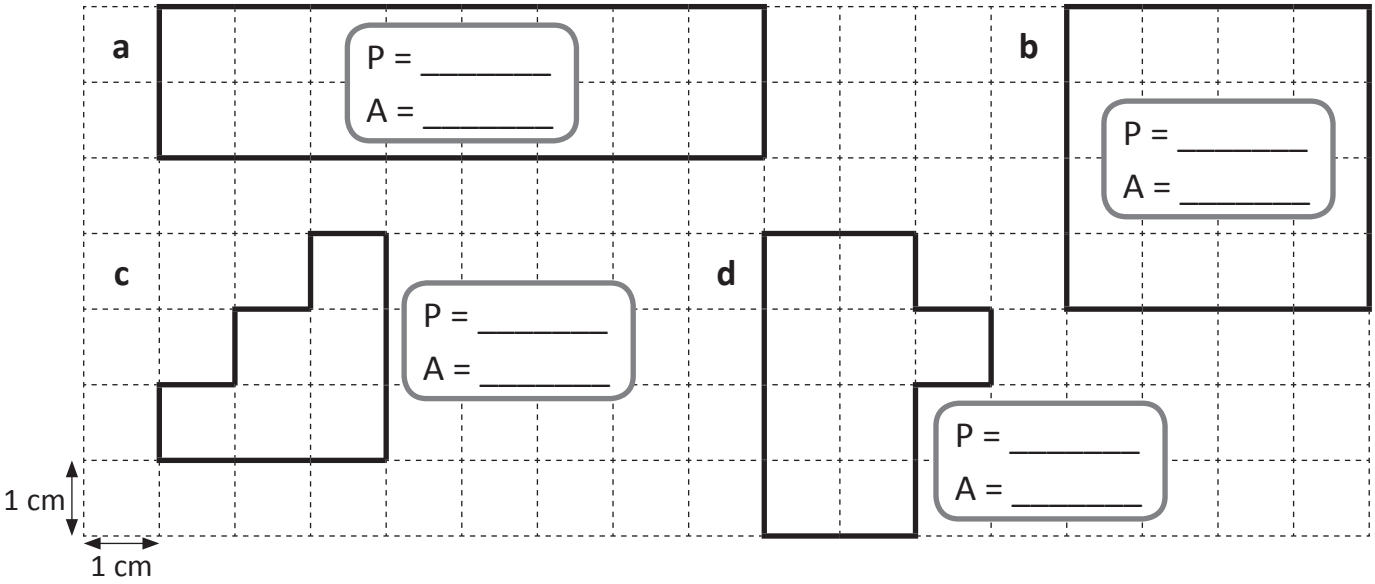
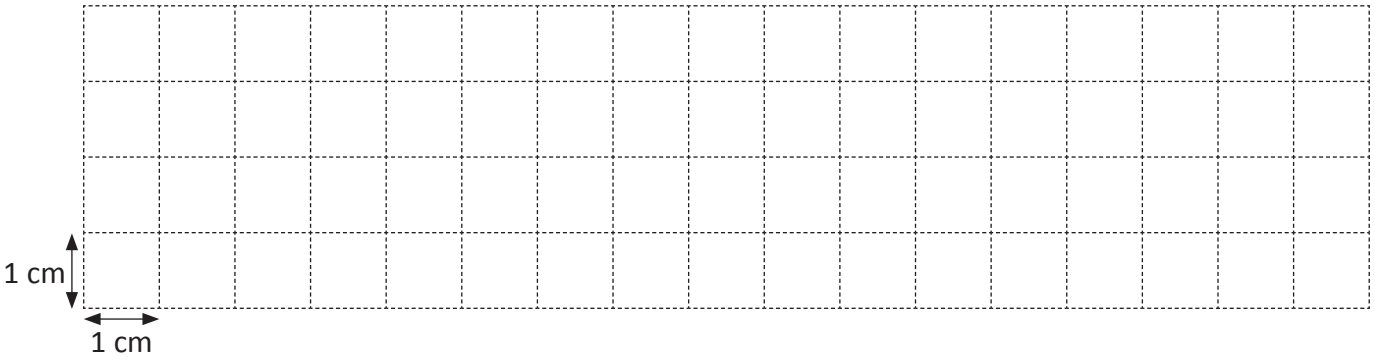
Area – investigating area and perimeter

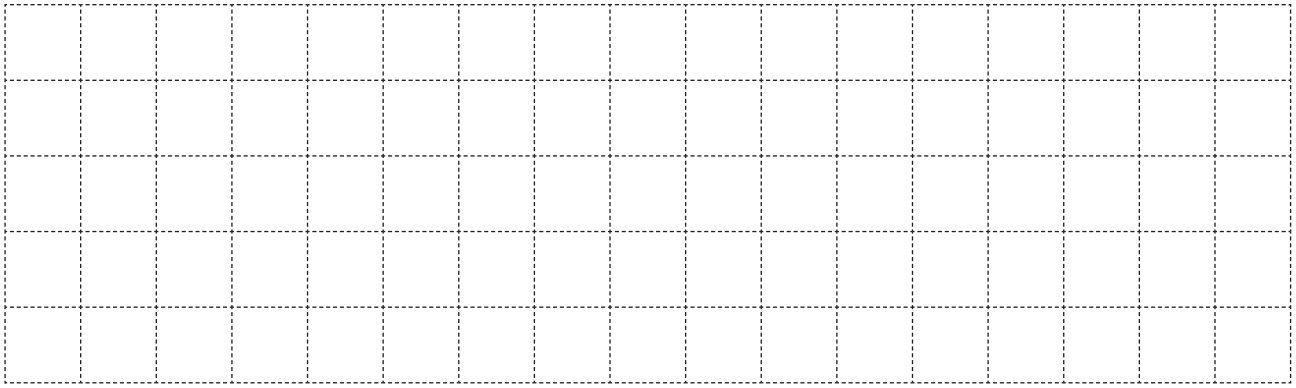
1 **What is the area and perimeter of these shapes?**



2 **Use the grid below to draw two shapes with a perimeter of 12 cm but with different areas:**



3 **Colour a square with a side length of 4 cm. Label its area and perimeter. Now colour a square with a side length of 5 cm and label its area and perimeter.**



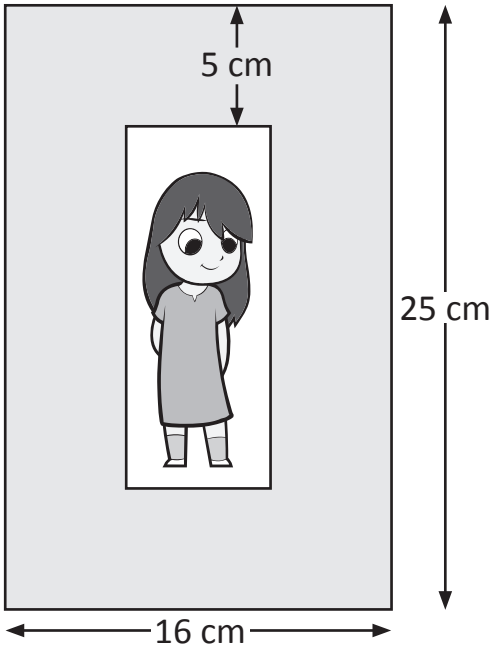
What do you notice? _____

Copyright © 3P Learning

What to do

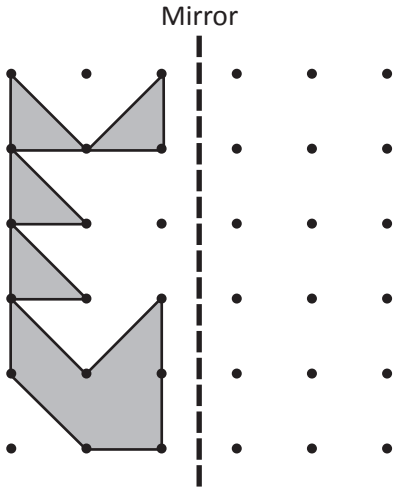
Solve these area challenges based on the dimensions:

a A framed photograph is 16 cm × 25 cm. The frame itself is 5 cm wide. Use these clues to find the area of the photograph inside the frame.



The area of the photograph is _____ cm^2.

b Using a ruler, copy this shape so it reflects on the right of the mirror line. Then work out the total area of this shape.



The total area of this shape is _____ cm^2.

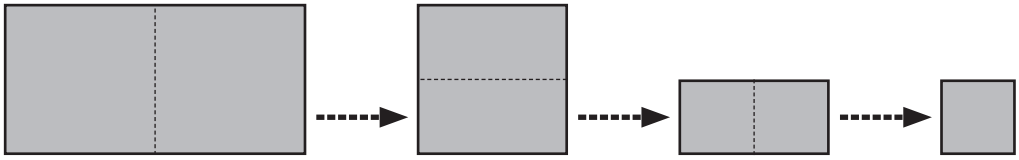
Copyright © 3P Learning

Area challenges 2 apply

What to do next

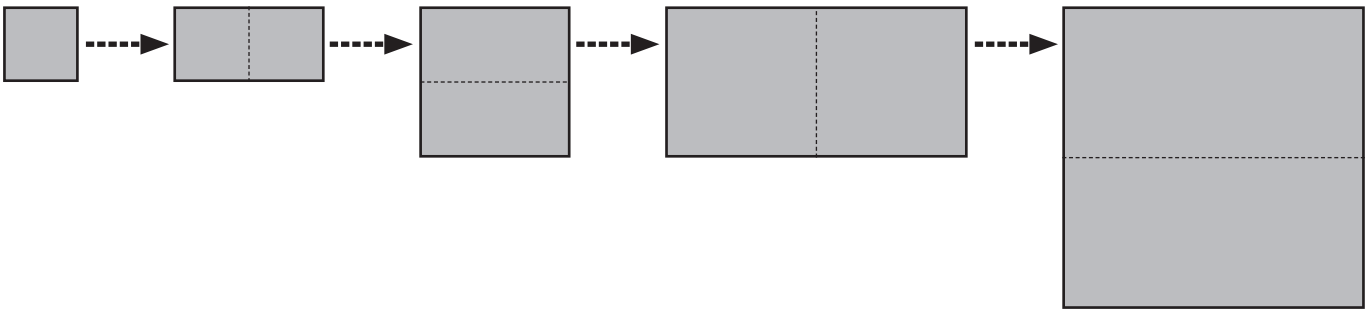
Solve these area challenges based on the dimensions:

a Max folded a rectangular piece of paper in half three times to make a square. If one side of the final square was 2 cm, what was the area of the piece of paper he started with?



The area of the piece of paper he started with was _____ cm^2.

b Amber received a drawing from her cousin Cameron. The drawing was on a square piece of paper folded in half four times. If the area of the folded drawing was 4 cm^2, what was the area of the original piece of paper that Cameron drew on?



The area of the original piece of paper that Cameron drew on was _____ cm^2.

Copyright © 3P Learning