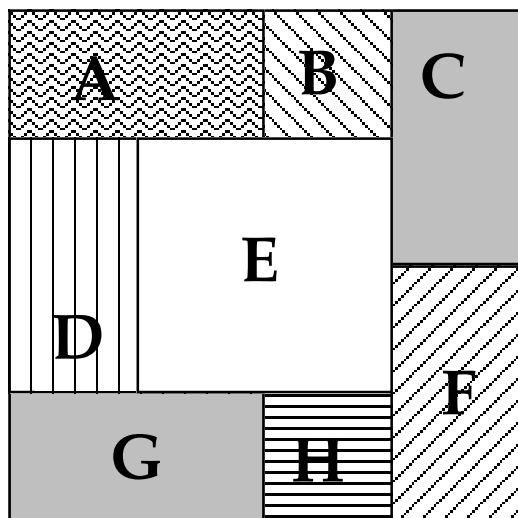
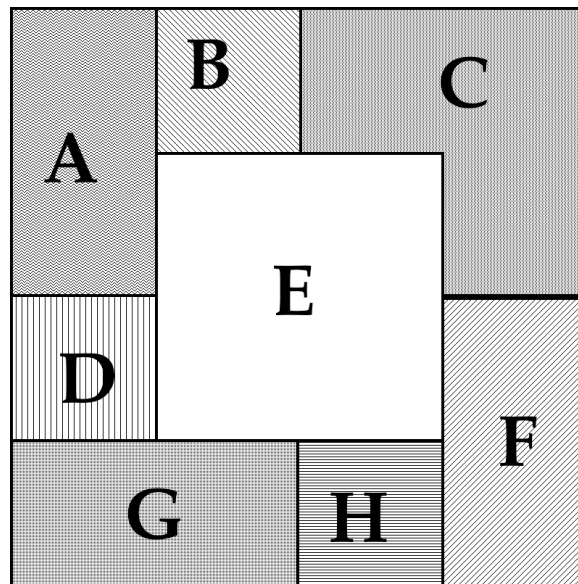


Each of the interior rectangles is a square. If square D is 81 square units and square C is 64 square units, what is the area of the other seven squares? What is the area of the entire figure? What is the perimeter of the entire figure? Explain your solutions.

**Mystery Squares.** The diagram at the right was created by placing eight square sheets of paper one on top of another in some sequence. The eight squares, labeled A through H, are all the same size, but they are shaded differently so you can tell them apart.

The square labeled E was placed last, so it is on top and you can see all of it. You can only see part of each of the other squares.

Determine the order of placement of the squares, from bottom to top, and show the precise location of each of the squares. (You might create a sequence of diagrams to show this.) Explain how you found your answers.



**Bonus Square.** Remember, there are eight squares of identical size placed on top of each other. To the left is a picture of a view from the top.

Determine the order of placement of the squares, from bottom to top, show the precise location of each of the squares, and explain your reasoning.

There is more than one solution here, so be careful! Describe all the possible solutions.