

Challenge Problem #41

Challenge problems are worth 30 points each. 6 points will be earned for the correct answer. This includes **appropriate units**. 12 points will be earned by **showing the mathematical process** used in getting the answer. The last 12 problems will be earned by **writing a complete explanation** of the reasoning used to solve the problem. Good luck.

Consider the diagram below. It shows a large square that has been divided into five regions. They consist of 4 congruent rectangles and another square. If the perimeter of each of the rectangles is 14 units, then what is the area of the larger square?

