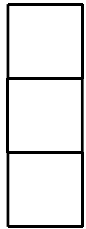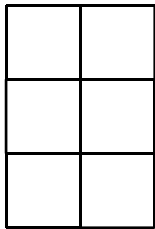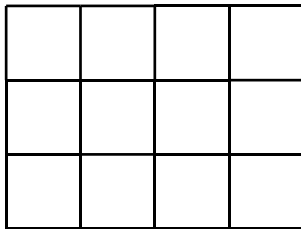# Building Blocks

The sequence below begins with 3 unit squares in Step 1, 6 unit squares in Step 2, and so on. Generate an explicit formula for the number of unit squares needed to construct the nth step. To get full credit for this problem, you will need to justify your answer by adequately explaining how your formula relates to the physical attributes of the construction.
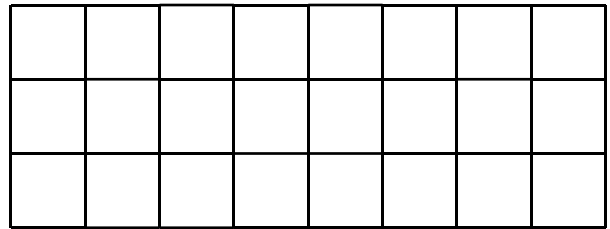

Step 1   Step 2   Step 3   Step 4

When you have solved this problem, go to Room 305 of Jordan Hall to present your solution to the Master Teacher. This problem is worth a total of 3 puzzle pieces.