

How Many Blades of Grass?

Task: Determine how many blades of grass are in the area of the lawn bordered by H-block, I-block, the main path connecting the blocks, and the science building.

Instructions: Using whatever method you would like, count the number of blades of grass in the given area. Justify your answer using proper mathematical reasoning – explain your process completely as part of your solution. You will be graded not on how closely your answer matches the teacher’s – but on how you solved the problem.

Criteria	Level One	Level Two	Level Three	Level Four
Problem solving choices	Solution is complete, but there are significant problems in the calculations or reasoning.	Solution is complete, but there are minor problems in the calculations or reasoning.	Solution is complete and accurate to within an acceptable margin of error.	Solution is complete and exceptionally well-reasoned, or a novel way to solve the problem is shown.
Organization and explanation	Solution is not well-organized or there are significant missing explanations.	Solution is organized but some explanations are lacking.	Solution is well-organized with acceptable explanations of the process.	Solution is exceptionally well-organized and explanations are complete, concise, and clear.