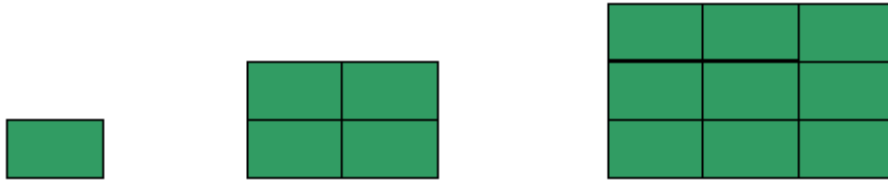


Building Patterns Incrementally Copymaster 4

Here we have a series of buildings with green concrete squares. Answer the questions.



How many green squares do we need for the first building? The second? The third?

How many green squares will we need for the ninth building? The twelfth?

What is the recurrence rule for the number pattern for the green squares? (How does it change as we go from building to building?)

What is the number of the building if we have to use exactly 121 green squares to make it?

What is the largest number of squares less than 200 in this pattern?

Which building number has nine times as many squares as another? (Is there more than one answer for this question?)

What is the general rule for this pattern? That is, given the number of the building, can you make up a rule that gives the number of the squares?

Can you see any more patterns here?