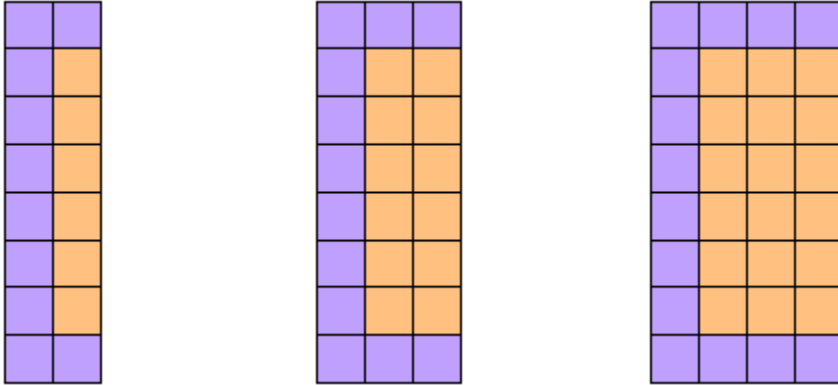


Building Patterns Constantly Copymaster 5

The architect got really carried away with this sequence of buildings. Do you like the colours? There are three tasks for you to complete here. One of these is to do with the purple squares, the next is to do with the tan squares, and the last looks at all of the squares.



Task 1:

*By how much is the number of purple squares changing from building to building?
Can you write a rule for the number of green squares in any of these buildings, in terms of the number of the building?
Test this rule for the numbers in your table.*

Task 2:

*By how much is the number of window squares changing from building to building?
Can you write a rule for the number of window squares in any of these buildings, in terms of the number of the building?
Test this rule for the numbers in your table*

Task 3:

*In which building is the number of purple squares the same as the number of tan squares?
In which building is the number of tan squares double the number of purple squares?
In which building is the number of tan squares one- and- a-half times the number of purple squares?
Can you think of a neat way to do these problems?*