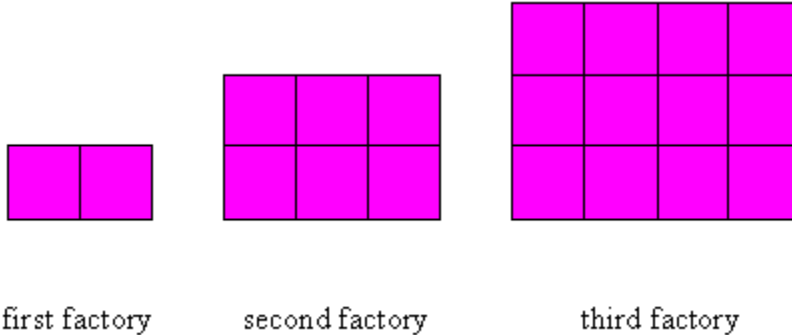


## Building Patterns Incrementally Copymaster 2

Here we have a series of factories with pink concrete squares. Answer the questions below.



*How many pink squares do we need for the first factory? The second? The third?*

*What does the table for this pattern look like?*

*How many pink squares will we need for the fifth factory? The seventh?*

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

*What is the number of the factory if we have to use exactly 42 pink squares to make it?*

*Which of these numbers are **not** a number of squares for one of these factories: 71, 72, 73, 74?*

*Which factory has 12 times as many squares as another?*

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

*Can you see any more patterns?*