

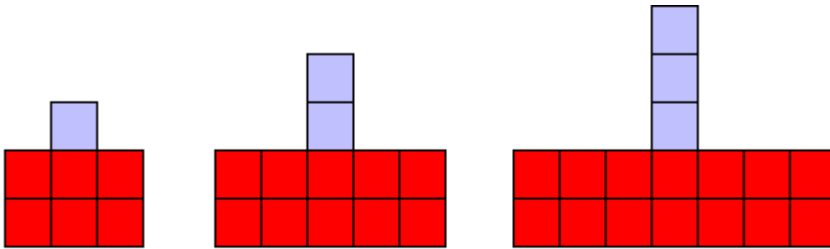
## Building Patterns Constantly Copymaster 1

Build the 'factories' in the diagram below (see also Copymaster 1), using square pieces of paper.

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

How many grey tiles will we need for the tenth factory? The hundredth? The 3,298th?

What is the number pattern for the grey squares?



first factory

second factory

third factory

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

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

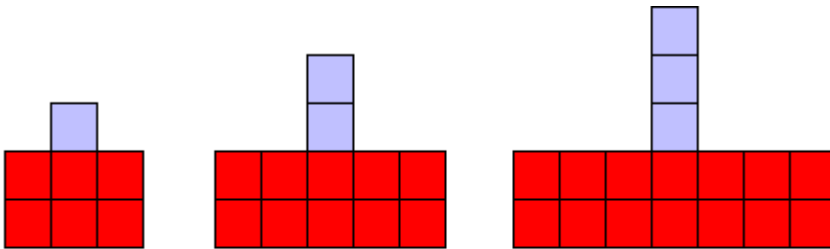
Who can tell me how many squares we'll need for the fourth factory?

Can someone come and show us how to make the fifth factory?

What is the number pattern that we are getting for the total number of squares?

What would be a good way of recording all of this data?

If we had 61 tiles, which numbered factory could we make? (Make it.)



first factory

second factory

third factory