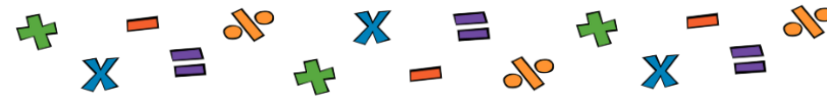




Busy Bees



A colony of bees is making a honeycomb of hexagonal cells, as in the picture. They start with the centre cell. The next day they add 6 cells around the centre cell, and on the third day they add the remaining ring of cells in the picture. Every day they add a new ring of cells right around the honeycomb.

How many cells will there be at the end of the 6th day?
On which day will the number of cells pass the 1000 mark?

