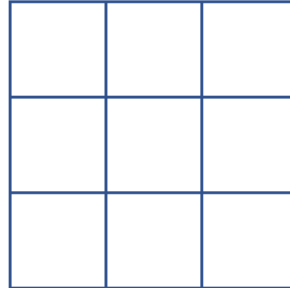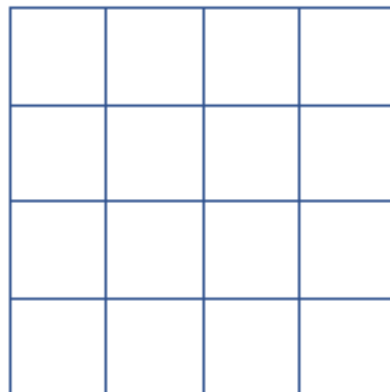# Squares in Squares

Look at the 3 x 3 square grid.

It contains 14 squares.

Can you find them all?

Now look at the 4 x 4 square grid.

How many squares does it contain?

Can you find a formula linking the size of the grid with the total number of squares it contains?

How many squares would there be in a 10 x 10 grid?

Can you extend your results to cubes?