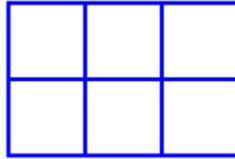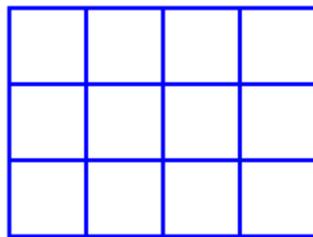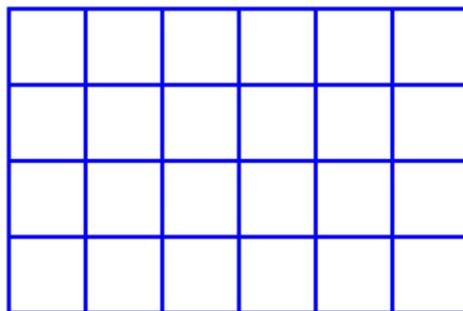A 2 by 3 rectangle contains 8 squares. Can you see how?

A 3 by 4 rectangle contains 20 squares. Can you see how?

A 4 by 6 rectangle contains 50 squares. Can you see how?

Thinking about what you have observed, see if you can answer these questions:

- What size rectangle contains exactly 100 squares?
- Is there more than one?
- Can you find them all?
- Can you prove that there are no more?