

### Can you spot the pattern?

At first glance the pattern below looks random. It isn't!  
Each row is generated from the row above using a simple rule.

When you have worked out the rule:

- a) generate a few more rows.
- b) describe the rule in words
- c) Can a row ever consist of:
  - i) all black circles
  - ii) all white circles
  - iii) one black circle?

Investigate what would happen if you started with a different pattern of circles in the top row.

