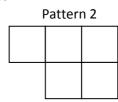
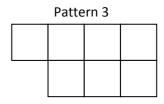
Sequences from patterns

1. Here is a pattern of squares



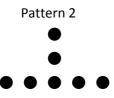


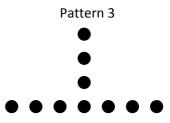


- a) Draw pattern 4
- b) How many squares will there be in pattern number 13?
- c) Which pattern has 27 squares?

2. Here is a pattern of dots



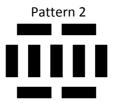


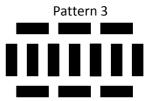


- a) Draw pattern 4
- b) How many dots will there be in pattern 15?
- c) Jack says there are 70 dots in pattern 20. Is he right? You must explain your answer.

3. Here is a made from bricks







- a) Draw pattern 4
- b) How many bricks will there be in pattern number 8?
- c) Which pattern will have 49 bricks?
- d) How many bricks will there be in pattern n?

4. Here is a made from white and grey tiles.







- a) Draw pattern 4
- b) How many white tiles will there be in pattern number 10?
- c) How many grey tiles will there be in pattern 8?
- d) Miles has 49 grey tiles and 32 white tiles. Which pattern can he make?
- e) Emma has 90 grey tiles and 42 white tiles. She says she can make pattern number 10. She is incorrect, explain why.
- f) How many more grey and white tiles will Emma need to make pattern number 10.