

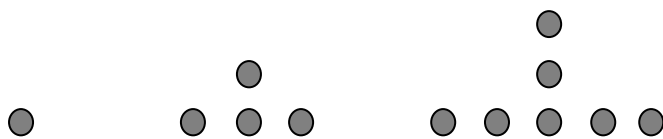
Number patterns and Sequences

“I can continue a number sequence”

1. Write down the missing two numbers from these sequences

- (a) 8, 12, 16, 20, _____, _____ (b) 11, 8, 5, 2, _____, _____
- (c) 3, 6, 12, 24, _____, _____ (d) 1.5, 3, 4.5, 6, _____, _____
- (e) 5, _____, 11, 14, _____, 20 (f) 1, 3, 6, 10, 15, _____, _____

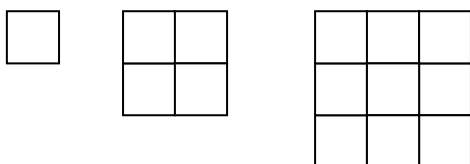
2. Look at this pattern. Draw the next stage of the sequence.



(b) Complete the table of results for this pattern

Pattern	1	2	3	4	5
Dots	1	4			

3. Here is a sequence. Draw two more patterns in the space below.

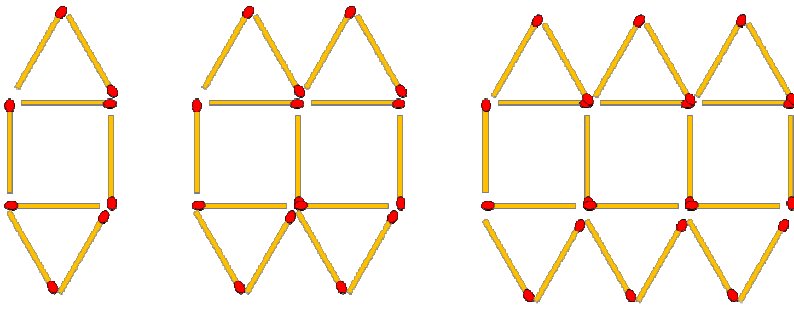


Complete the table.

Pattern	1	2	3	4	5
Squares	1	4			

How many squares will be needed for the 10th pattern?

4. Here is a pattern made from matchsticks.



- (a) Draw the next pattern.
(b) Complete the table below

Squares	1	2	3	4	5
Triangles	2	4	6		
Matches	8	15			

- (c) How many matches will be needed if I want 10 squares?
(d) If I have 50 matches, how many squares and triangles can I make?

5. Use the squared paper below to make up your own sequence.
You must show at least three stages of your sequence.

