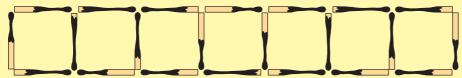
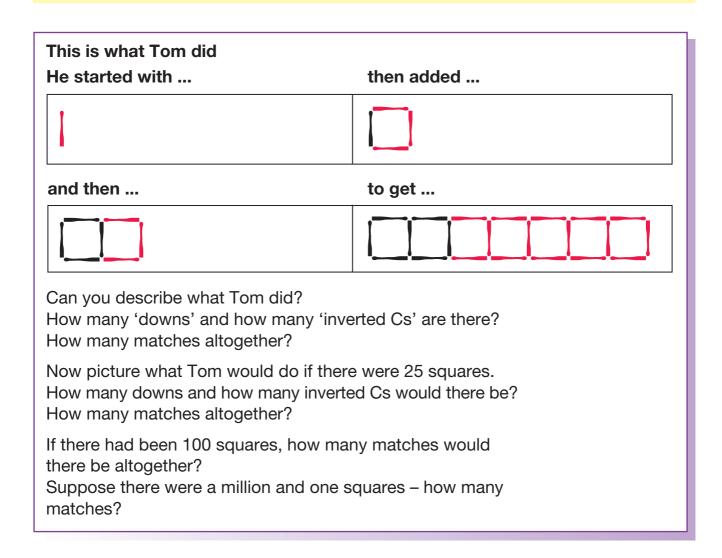
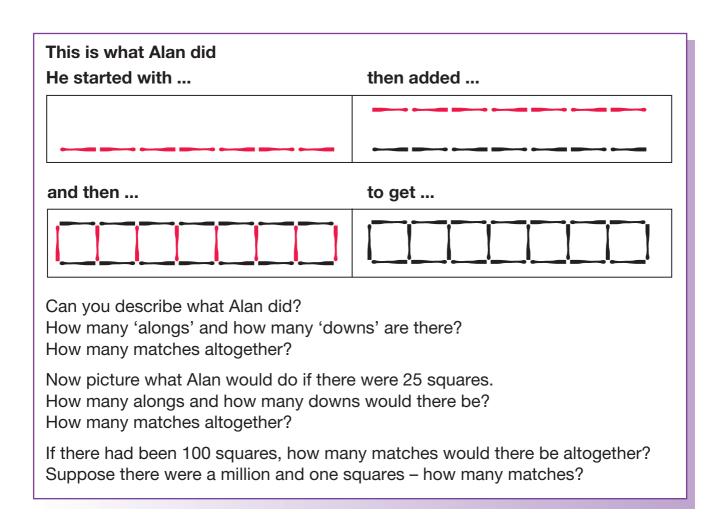
Seven squares

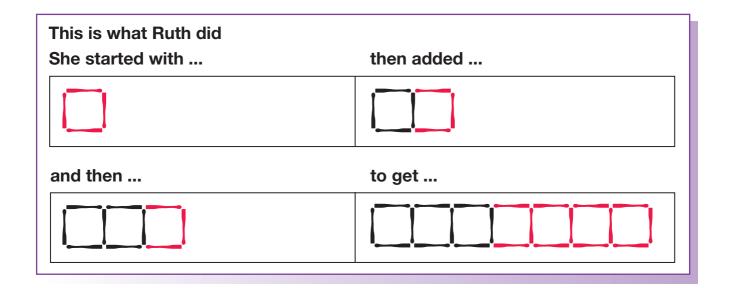
Generalising from patterns

Some pupils were asked to arrange matches into this pattern:









Follow-up activities

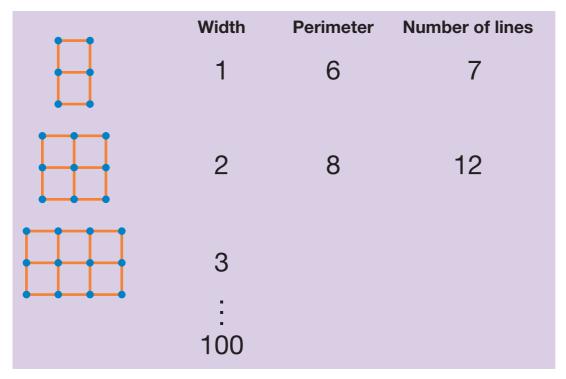
Choose a couple of the sequences below.

Try to picture how to make the next, and the next, and the next, ...

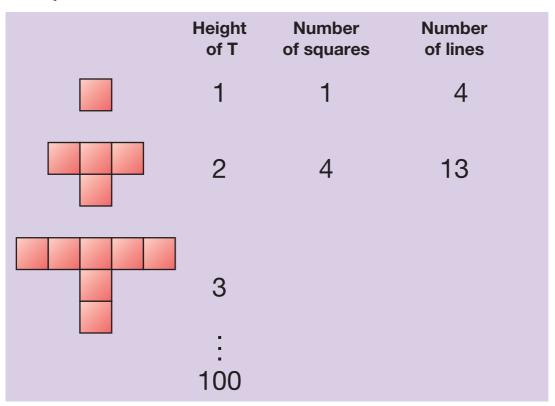
Use this to help you to find the number of squares, or lines, or dots, or perimeter length needed for the largest number in the sequence.

Can you describe your reasoning?

Growing rectangles



T-shapes



L-shapes

 Side of large square	Number of small squares	Perimeter of L-shape
2	3	8
3	5	12
4		
100		

Squares in squares

Number of grey squares	Number of white squares	
4	12	
9		
: 100		