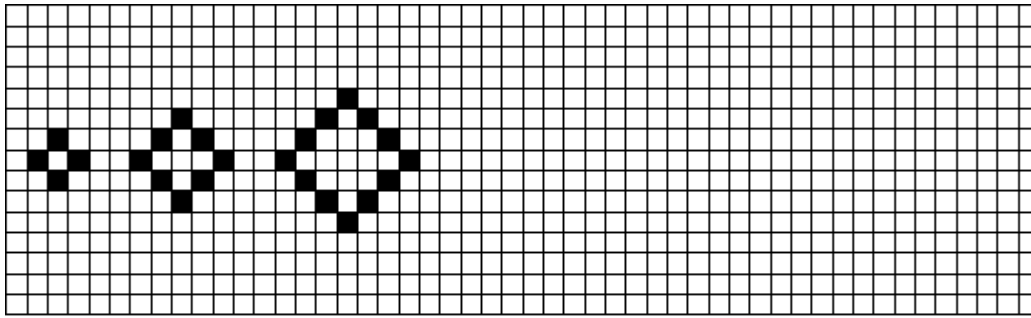


# Diamond patterns II

This task is about completing a pattern and writing a rule to describe the pattern.



Shape 1    Shape 2    Shape 3    Shape 4    Shape 5

a) Draw the next two patterns in this series of diamonds.

b) Complete this table.

<b>Shape number</b>	1	2	3	4	5
<b>Number of shaded squares</b>	4	8	12		

c) How many shaded squares would there be in

i) shape number 20? \_\_\_\_\_

ii) shape number 50? \_\_\_\_\_

d) Complete this rule to show how many shaded squares make up diamonds of various sizes.

The number of shaded squares = the shape number \_\_\_\_\_