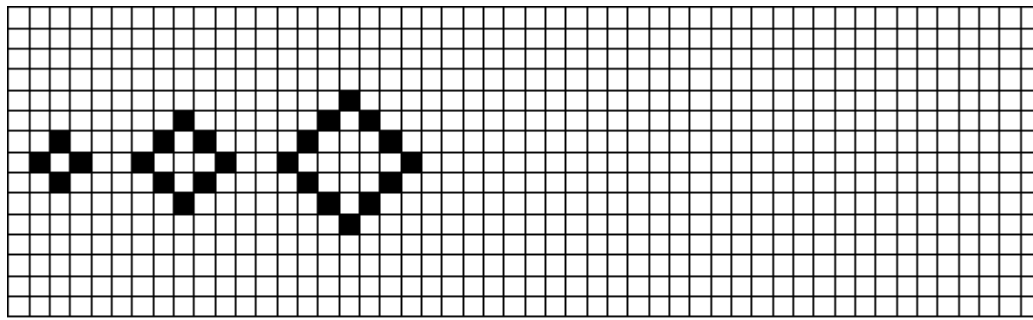


Diamond patterns II

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.

Shape number	1	2	3	4	5
Number of shaded squares	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 _____