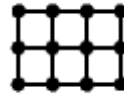


Growing Rectangles

This rectangle has height 2 and width 3.

Work out

- (a) the perimeter
- (b) the number of dots and
- (c) the number of lines needed to draw a rectangle with:
 - height 2 and width 25
 - height 2 and width 100
 - height 2 and width n

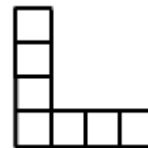


L Shapes

This L shape has height 4 and width 4.

Work out

- (a) the perimeter
- (b) the number of squares and
- (c) the number of lines needed to draw an L shape with:
 - height 25 and width 25
 - height 100 and width 100
 - height n and width n

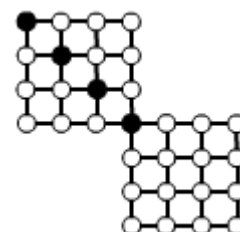


Two Squares

This pattern with two squares has four black dots.

Work out

- (a) the number of white dots and
- (b) the number of lines needed to draw a pattern with:
 - 25 black dots
 - 100 black dots
 - n black dots

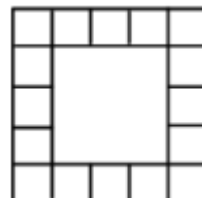


Square of Squares

This pattern has side length 5.

Work out

- (a) the number of edge squares and
 (b) the number of lines needed to draw the pattern with:



side length 25

side length 100

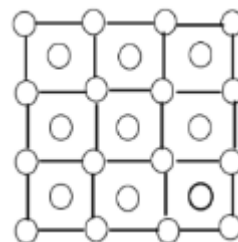
side length n

Dots and More Dots

This pattern has side length 3.

Work out

- (a) the number of dots and
 (b) the number of lines needed to draw the pattern with:



side length 25

side length 100

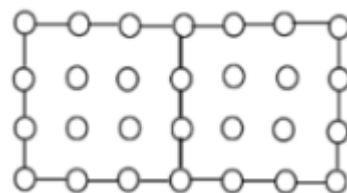
side length n

Rectangle of Dots

This pattern is made from two joined squares with side length 3.

Work out

- (a) the number of lines and
 (b) the number of dots needed to draw the pattern of joined squares with:



side length 25

side length 100

side length n