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

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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 $n$