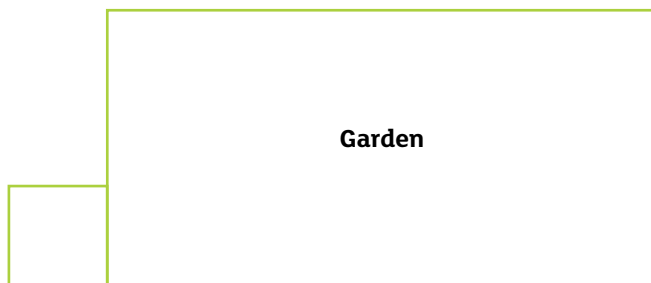


Activity Card 3

Enlarging Shapes (Card 2)

- Using all the smaller squares you created for the previous activity, could you arrange them in another array (**arrange them into rows and columns**) to create a different quadrilateral? You can use tabletop shapes to investigate a solution before you draw it using the Logo turtle.
- If you used the turtle to draw the perimeter of a garden that was 120 units long and 60 units wide and you were asked to make a path around the outside of it with smaller squares that were 20 units wide, how many smaller square tiles do you think you might need?
- Could you draw your garden and path with the turtle to check?



- Could you create some other examples for yourself? Keep the smaller square 20 units and the sides of the rectangle as multiples of 20. Pay careful attention to each of the perimeters and the number of smaller squares that are needed to tile a path on the outside. Did you notice any pattern between them?
- Could you write out the pattern as a rule that might apply to every tiled path? For example, if you knew what the perimeter of the shape was, could you use your rule to calculate how many tiles are needed for the path?