


# Number Grid Generator

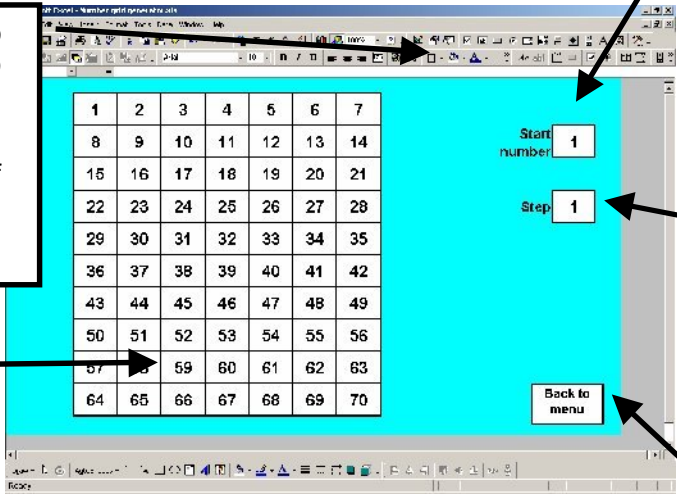
## Number grid generator - Overview

This file enables the user to generate a range of number grids. The menu page enables the user to choose between two and 12 columns and, once the grid has been chosen, the start number and the step. It is possible to use whole numbers, negative numbers and decimals. The grids can be used to explore the number system and within a problem-solving context.

## Number grid generator - How to use

You can click on a cell to select it or click and drag to select a range of cells and then use  the 'fill' icon, to highlight them in a colour of your choice or hide them with black

The grid will be generated as soon as you enter your start number and step size



Enter your chosen start number here, it can be a whole number, a decimal or a negative number

Enter your chosen step here, this can be a whole number a decimal or a negative number.

Click here to return to the menu

## Number grid generator - Key questions and prompts

- What number is above/below 53?
- What patterns can you see?
- What do you notice about the odd/even numbers?
- Where are the multiples of 5? Describe the pattern
- Highlight a square of four cells. What is the total? If I move the square one place to the right, what happens to the total?
- If I make the start number 6 and the step 2, what number will be in the bottom right hand corner?
- If I make an 8-column grid with the same start number and step size what will happen to the patterns?
- If I halve the number of columns what will happen?
- Set up a grid with the step size 1. What will happen if I change the step size to 10? What about 100? What about 0.1? What about 0.01?
- What grids can I make with a multiple of 5 in the bottom left hand corner?
- Where are the square/prime numbers?