

Mathematics

# Sequences

## Tracking Calculations

### Downloadable Resource

Ms Jones



# Try This

Row 1	1	2	3	4	5	6
Row 2	7	8	9	10	11	12
Row 3	13	14	15	16	17	18
Row 4	19	20	21	22	23	24
Row 5	25	26	27	28	29	30

Imagine continuing the number grid.

What would the 10<sup>th</sup> row look like?

What about the 50<sup>th</sup> or 100<sup>th</sup> row?

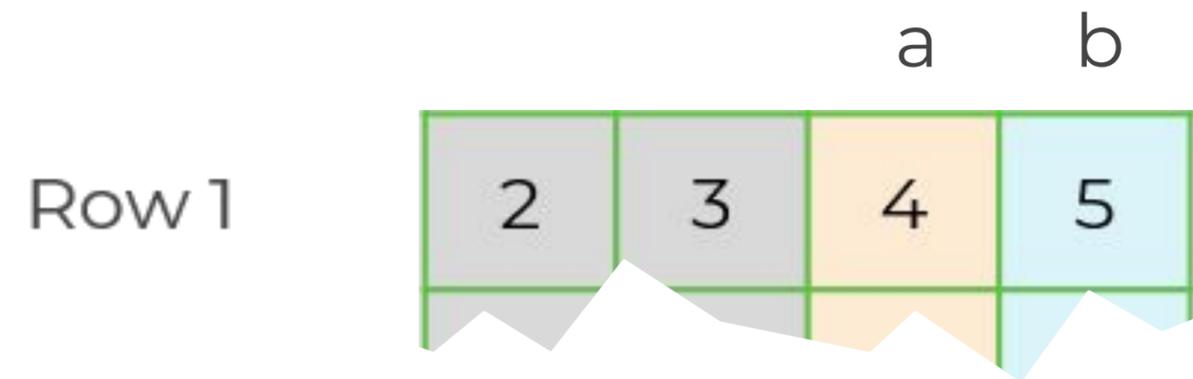


# Independent task

E.g.

1. For the grid shown:

- Write out 5 terms of the sequences for the highlighted columns (a and b);
- Replace the sequence with tracking calculations using the row numbers.



2. Given sequence(s) (12, 19, 26, ....):

- Draw a number grid where the sequence lies within a column;
- Replace the sequence with tracking calculations.



# Explore

The image shows part of a number grid.

In how many ways can you place the numbers within the orange squares?

	<b>5</b>		<b>-2</b>
<b>9</b>		<b>14</b>	

How could you convince someone the grid must have more than 4 columns?

