
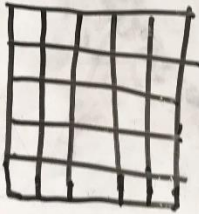


Alex, Ayali, Brodie & Keya
Strand on the Green Junior School

We decided the easiest way was to start with the biggest tiles that could fit.




	1	2	3	4
1	0	0	0	1
2	0	4	0	0
3	7	0	1	0
4	16	0	0	0
5	12	1	0	0
6	8	2	0	0
7	4	3	0	0

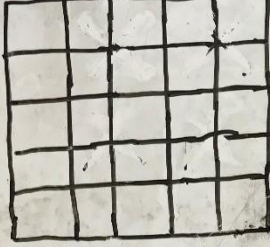


	5	4	3	2	1
1	1	0	0	0	0
2	0	1	0	0	0
3	0	0	1	0	0
4	0	0	0	1	0
5	0	0	0	0	1

	5	4	3	2	1
1	0	0	0	4	9
2	0	0	0	6	25
3	0	0	0	3	13
4	0	0	0	1	21
5	0	0	0	2	27



	4x4	3x3	2x2	1x1
1	1	0	0	0
2	0	0	1	0
3	0	4	0	0
4	0	0	7	16



	5x5	4x4	3x3	2x2	1x1
1	1	0	0	0	0
2	0	1	0	0	0
3	0	0	1	1	0
4	0	0	3	0	4
5	0	9	4	15	9

We agreed there are 7 possibilities for the 4 by 4 square and 11 for the 5 by 5 square. Initially that looks like a sequence adding 4 each time. However there are already 7 possible totals for the 6 by 6 square using the 6x6, 5x5 and 4x4 tiles so there will definitely be more than 15 (but we didn't have time to find them all).

6x6 5x5 4x4 3x3 2x2 1x1 Total

1	0	0	0	0	0	1
0	1	0	0	0	11	12
0	0	1	0	0	20	21
0	0	1	0	1	16	18
0	0	1	0	2	12	15
0	0	1	0	3	8	12
0	0	1	0	4	4	9
0	0	1	0	5	0	6

We know that there are 2 combinations for the 2 by 2 square.

	different numbers of tiles
2x2	2
3x3	3
4x4	7
5x5	11

The only pattern we found was that they are all prime numbers.