

Ben is on the allotment with his Mum. They would like to grow some garlic and are deciding how to plant the garlic cloves.

Ben arranges the cloves into three equal rows and finds that he has one spare clove.

How many cloves might he have had to start with?

How do you know?

Ben plants cloves of garlic in two equal rows and has one clove left over. So he tries again.

He plants cloves in three equal rows and has one leftover. So he tries again.

He plants cloves in four equal rows and has one leftover. So he tries again.

He plants cloves in five equal rows and has one leftover. So he tries again.

He plants cloves in six equal rows and still has one leftover.

We know that he has fewer than 100 garlic cloves. How many did he have?

How do you know?

How many cloves might he have had if there were more than 100?

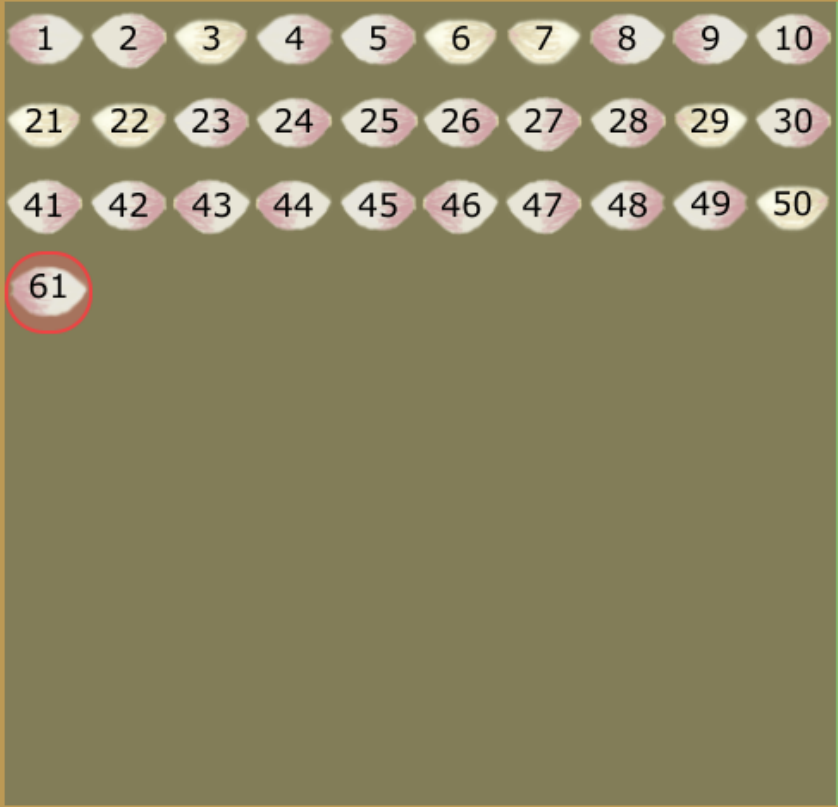
The interface shows a grid of 60 numbered circles arranged in 6 rows and 10 columns. The numbers are 1 through 60, with 61 circled in red below the grid. To the right of the grid are two input fields. The first field is labeled "How many cloves of garlic?" and contains the number 61. The second field is labeled "How many rows?" and contains the number 6. Both fields have a "Go" button next to them.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61									

How many cloves of garlic?

How many rows?

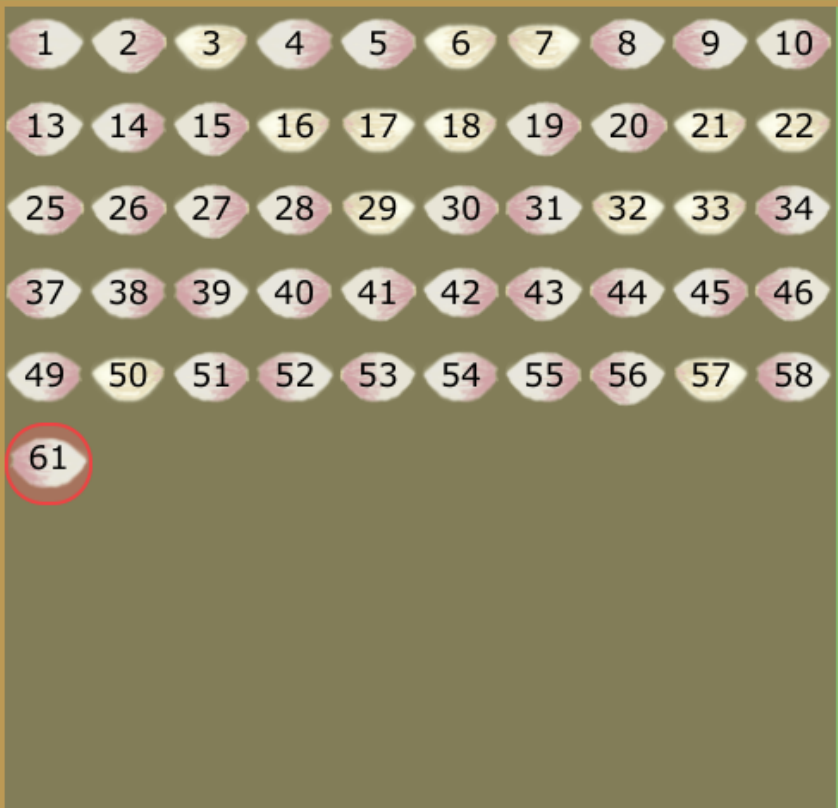
He had 61 cause if you use the interactive 61 is 1 leftover for every single one it works for 2, 3, 4, 5, and 6 what I did is start at 100 and I started subtracting numbers, and every time I got a number that has 1 leftover I tested each amount of rows and I figured out for 2 rows 1 leftover it has to be an odd number and for 5 it cant be a multiple of five



The grid shows numbers 1 through 50 in a 5x10 layout. The number 61 is circled in red below the grid.

How many cloves of garlic?

How many rows?



The grid shows numbers 1 through 58 in a 6x10 layout. The number 61 is circled in red below the grid.

How many cloves of garlic?

How many rows?