

Name: _____ Date: _____

Penguin Puzzler

250 penguins marched in the fourth annual penguin parade. There was one penguin in the first row, two penguins in the second row and three penguins in the third row. This pattern continued through all of the rows.

- How many rows of penguins were there?
- Was the last row full?



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PLAN: Make a table until I get a total of 250 penguins.

Row	No. penguins in row	Total penguins
1	1	1
2	2	3
3	3	6
4	4	10
5	5	15
6	6	21
7	7	28
8	8	36
9	9	45
10	10	55
11	11	66
12	12	78
13	13	91
14	14	105
15	15	120

Row	No. penguins in row	Total penguins
16	16	136
17	17	153
18	18	171
19	19	190
20	20	210
21	21	231
22	22	253

ANSWER: The table clearly shows that 250 penguins marching in this pattern would need 22 rows.

- There were 22 rows of penguins
- The last row was not full. They would need 3 more penguins to fill the row.