

Graphic Details

You need sticks

multilink cubes

counters

a computer spreadsheet

Activity

Emma made up this pattern with sticks:



1 person 6 sticks



2 people 11 sticks



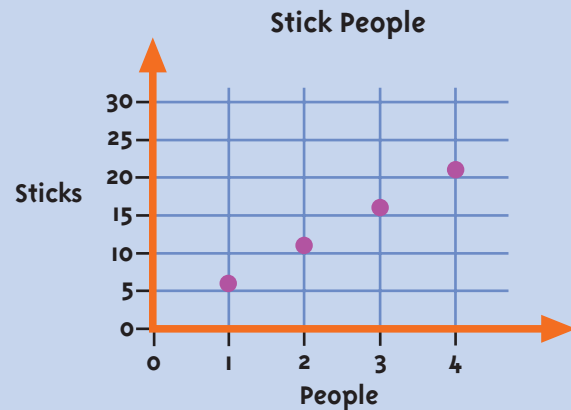
3 people 16 sticks



4 people 21 sticks

She entered the pattern into a computer spreadsheet and then graphed it using a scatter plot:

	column	
	A	B
row	1	People
2	1	6
3	2	11
4	3	16
5	4	21



1. Use Emma's table and graph to find out how many sticks are needed to make:

- a. 10 people b. 15 people.

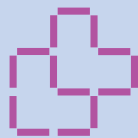
2. Here are some other patterns.

Use a computer spreadsheet and a graph like Emma's to work out the next and the tenth member of each pattern.

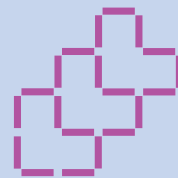
a.



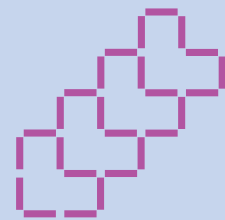
1 L 8 sticks



2 Ls 14 sticks



3 Ls 20 sticks



4 Ls 26 sticks

b.



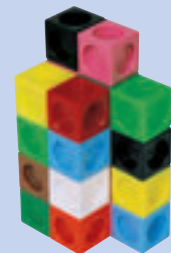
2 levels 7 cubes



3 levels 12 cubes



4 levels 17 cubes



5 levels 22 cubes