Hexagons





Make the next 2 patterns in the sequence.

Complete this table. Predict and test the number of sticks for 8 and 10 hexagons, then predict the number of sticks for 12 and 20 hexagons.

Number of hexagons	1	2	3	4	5	8	10	12	20
Number of sticks									

Challenge (Year 6)

Can you write an algebraic expression for the number of sticks for n hexagons?



Answers

Number of hexagons	1	2	3	4	5	8	10	12	20
Number of sticks	6	11	16	21	26	41	51	61	101

Challenge (Year 6)

Number of sticks = 5n + 1



