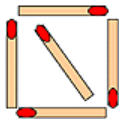
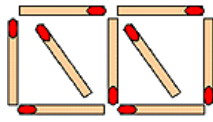


# Matchstick patterns II

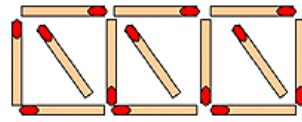
This task is about completing and describing rules for growing patterns.



1



2



3

a) i) Here are the first three shapes in a pattern. Finish the table to show the number of matches you would need to make the next four shapes in the pattern.

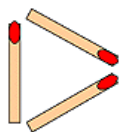
<b>Shape number</b>	1	2	3	4	5	6	7
<b>Number of matches</b>	5	9	13				

ii) Use words or an equation to explain how you worked the pattern out.

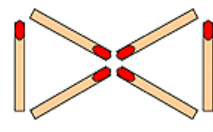
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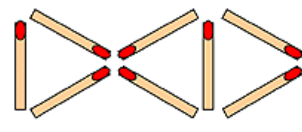
---



1



2



3

b) i) Finish the table to show the number of matches you would need to make the next four shapes in this pattern.

<b>Shape number</b>	1	2	3	4	5	6	7
<b>Number of matches</b>	3	6	8				

ii) Use words or an equation to explain how you worked the pattern out.

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