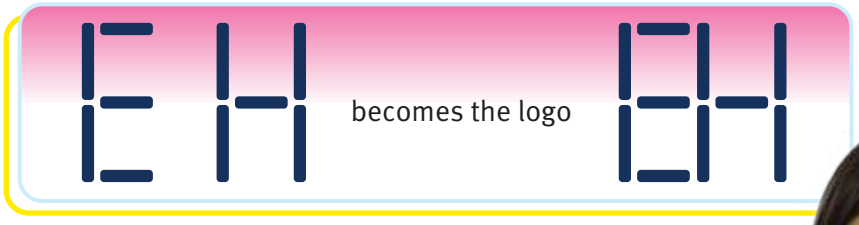
Initials Logo

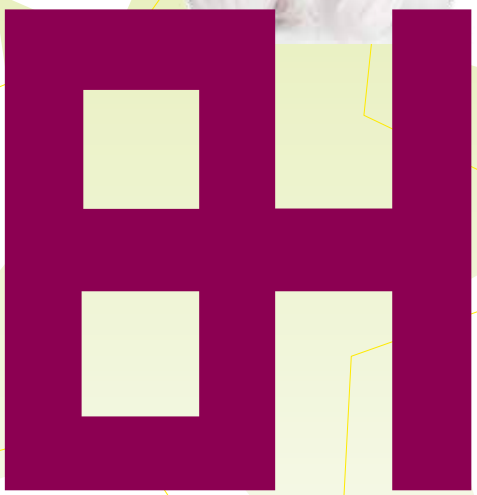
ACTIVITY

You need: a classmate, sticks (optional)

1. Evalesi Henry makes her initials into a stick logo like this:



She also makes a design by repeating her logo like this:



a. Evalesi predicts that 5 x 8 + 2 = 42 sticks will make a design with 5 joined logos. Make the design and check whether she is correct.
b. Explain how Evalesi's short cut, 5 x 8 + 2, works.
c. Predict the number of sticks used in a design that has 100 joined EH logos.
d. Complete the table below.

Number of joined logos	Number of sticks
5	5 x 8 + 2 = 42
6	
20	
94	
256	

2. Arnon Hosiri also makes a design by repeating the logo from his initials.

a. Arnon predicts that 5 x 7 + 2 = 37 sticks will make a design with 5 joined logos. Make the design and check whether he is correct.
b. Explain how Arnon's short cut, 5 x 7 + 2, works.
c. Predict the number of sticks used in a design that has 100 joined AH logos.

d. Complete the table below.

Number of joined logos	Number of sticks
5	5 x 7 + 2 = 37
7	
36	
87	
109	

3. Evalesi uses another short cut to predict the number of sticks in Arnon's designs. She uses 5 additional sticks that are coloured orange.

Evalesi then says that a design with 3 of Arnon's logos has 4 x 7 – 5 sticks.

a. Explain how Evalesi's new short cut, 4 x 7 – 5, works.

b. Use this short cut to predict the number of sticks in a design with 5 of Arnon's logos.

c. Complete the table below.

Number of joined logos	Number of sticks
3	4 x 7 – 5 = 23
9	
15	
47	
183	

d. Complete the table below using Evalesi's new short cut.

Number of joined logos	Number of sticks
6	
	16
	30
	72
	632