Diamond patterns

This task is about patterns and their rules.

Loretta made some patterns using green and white diamonds.







Pattern 2



Pattern



Pattern 4

a) Complete the table below to show the number of green and white diamonds that each pattern would have.

Pattern Number (<i>n</i>)	1	2	3	4	5	6	•••	10	25
Number of Green Diamonds, (<i>b</i>)	3	4							
Number of White Diamonds, (<i>w</i>)	4	6							

h)	i)	the ni	umber	of green	diamonds	(<i>b</i>)	to the	nattern	number (n)	١.
ν_{j}	1)	CITC III	ullibel	OI GICCII	alamonas	(ν)	to the	pattern	Hullibel (. 1 1)	

ii) the number of white diamonds (w) to the pattern number (n).

c) What pattern number would Loretta have painted if the pattern had a total of 86 white diamonds?

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