

# chalkdust

A magazine for the mathematically curious

## Christmas conundrum #3

The following nonogram puzzle doesn't have a unique answer: there is more than one pattern of coloured squares that satisfied the clues. How many different solutions are there?

			1																	1		
		1	1																		1	
	3	2	1	3				1			3		1		1	5	1					
	1	3	1	1	1	2	2	1	2	2	1	1	1	1	2	4	1	1				
	1	1	2	1	2	2	1	1	2	1	2	1	2	3	2	1	2	1	2	1	1	
	1	2	2	2	4	5	2	1	1	1	5	4	1	1	1	1	1	2	2	5	7	
	1	1	1	4	5	3	3	3	2	1	7	4	9	1	2	1	1	2	1	1	1	4

  

		3	2	2	6																		
	1	4	4	1	1	1																	
		4	2	1	4																		
1	2	1	2	1	1	1	1																
	1	1	2	1	2	6	1																
	1	1	2	3	1	1	1																
		3	1	3	4																		
	1	3	1	1	1	1																	
		1	3	3	1	2																	
		7	1	3	2																		
	1	1	7	1	3																		
		1	3	3	1																		
4	2	2	2	1	2																		
2	6	3	1	2	1																		
		3	9	2	1																		
		3	3	2	1																		
		3	3	4																			

Once you've worked this out, head to [chalkdustmagazine.com](http://chalkdustmagazine.com) and enter this number for a chance to win a signed copy of *The Element in the Room* by Helen Arney and Steve Mould.