Skeleton Tower		Rubric
	Points	Section points
1. Gives correct answer: **66** *Partial credit:* Adds together the numbers 1, 5, 9, 13, 17 and 21 with no more than one error.	2 (1)	2
2. Gives correct answer: **276** Gives a correct explanation such as: Each layer has 4 more cubes than the layer above. Adds together 12 layers. Alternatively: May add the number of cubes in one wing of the tower, and then multiply by 4. The number of cubes on the 12 layers are 1,5,9,13,17,21,15,29,33,37,41,45	1 2 or 2 1	4
3. Gives correct answer: $\mathbf{2n^2 - n}$ *Partial credit*: Finds the number of cubes for at least the first 4 towers to try to find the pattern. 1, 6, 15, 28, 45, 66 ….. Provides a correct explanation showing how the formula can be found.	2 (1) 2	4
Total Points		**10**