Sums of series

Answers

Further Maths topic practice

This topic online

Q	Answer	Marks
1	**a)** 22140 **b)** 14400	3
2	1240	3
3	213200	3
4	$\Sigma r(r + 3) = \Sigma r^2 + 3\Sigma r = (1/6)n(n + 1)(2n + 1) + (3/2)n(n + 1) = (1/3)n(n + 1)(n + 5)$	4
5	**a)** shown **b)** 24590	5
6	**a)** shown **b)** 212790	6
7	**a)** shown **b)** 2485	5
8	$n = 20$	4
9	**a)** $k = 2$ **b)** 5800	6
10	**a)** shown **b)** $n = 32$	7
11	**a)** shown **b)** 1540 **c)** 17 layers, 31 tins left over	8
12	**a)** shown **b)** shown **c)** $n = 5$	8

Full worked solutions, written out by hand, are on the solutions sheet for this topic.

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