Sequences

Answers

KS3 Maths topic practice

This topic online

Q	Answer	Marks
1	**a)** 48 **b)** multiply by 2 (accept double the previous term)	2
2	**a)** 2 and -1 **b)** subtract 3 (accept take away 3)	3
3	**a)** A arithmetic, B square numbers, C geometric, D Fibonacci-type **b)** A 24, B 25, C 162, D 8	4
4	5, 11, 17	2
5	**a)** 17, 14, 11; 10th term -10 **b)** 3, 6, 11	3
6	$4n + 1$	2
7	$23 - 3n$	2
8	**a)** $4n + 2$ **b)** 82 **c)** No - $4n + 2 = 100$ gives $n = 24.5$, which is not a whole number	4
9	**a)** 57 **b)** Yes, $5n - 3 = 122$ gives $n = 25$, a whole number	3
10	**a)** $7n + 1$ **b)** $7n + 1 = 150$ gives $7n = 149$, and 149 is not divisible by 7	4
11	$n^2 + 2n - 1$	2
EXTENSION QUESTIONS		
12	**a)** $2n^2 + n + 1$ **b)** 211	5

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

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