## Extending a pattern and determining its formula

1. (a) $10,12,14,16,18,20$

28
38
48
(b) $\quad b=2 n \ldots$.
(c) $2 \times 23+8$

54 burgers

## [8]

2. (a) 15,18
39
(b) $\quad b=3 d \ldots$.
$+3$
(c) $3 d+3=57$
(c) $\begin{aligned} & 3 d+3=57 \\ & 18 \text { diamonds }\end{aligned}$

1 all entries
1
1
1
1 multiplier
1 addition
1 substitution
1 answer

1 both entries
1
1 multiplier
1 addition
1 setting up equation
1 solution

## [14 marks]

