

*Number Sequences**Answers*

4

10. $u_n = 6n + 8$; 68

11. $u_n = 5n + 2$; 7

12. (a) $u_8 = 29$, add 4 (b) $n = 100$; 100th term is 397

13. $u_n = 4n + 3$

14. (b)

<i>Number of enclosures</i>	4	5	6	7	8
<i>Number of posts</i>	15	18	21	24	27

(c) 63 posts (d) $u_n = 3n + 3$

15. (a) (i)  (ii) 13 sticks (b) 3 more sticks

(c) number = $3s + 1$

16. (a) (i) add 5 (ii) $u_n = 5n + 2$

(b) area = $n(n + 1) = n^2 + n$