

Answer Key

Test A

1. arithmetic; $d = 2$
2. neither; no constant d or r
3. geometric; $r = 2$
4. arithmetic; $d = 5$
5. 3, 4, 5, 6, 7, 8
6. 2, 6, 12, 20, 30, 42
7. 3, 6, 9, 12, 15, 18
8. $25; 5n$
9. $19; 4n - 1$
10. $21; 3(n + 2)$
11. $243; 3^n$
12. $1; 6 - n$
13. $\frac{1}{32}; \frac{1}{2^n}$
14. $a_1 = 5; a_n = 0.4a_{n-1}$
15. $a_1 = 1; a_n = a_{n-1} + 5$
16. $a_1 = 36; a_n = \left(\frac{1}{2}\right)a_{n-1}$
17. 1275
18. 1000
19. -5
20. 62
21. 2800
22. $\frac{121}{243}$
23. 650
24. 16
25. $\sum_{n=1}^4 6n$
26. $\frac{5}{9}$
27. 610
28. about \$87,900