

Sequences and Series SS2: More Arithmetic Sequences

Find the given term of the arithmetic sequence.

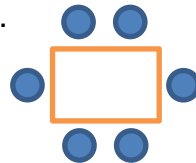
1. $a_1 = 6, d = 2, n = 5$
2. $a_1 = 5, d = -5, n = 13$
3. $a_1 = 32, d = 15, n = 124$

The given number is **which** number in the given sequence?

4. 52, $a_n = -2 + 6(n - 1)$
5. 41, $a_n = 1 + 5(n - 1)$
6. 187, $a_n = 2 + 5(n - 1)$
7. 227, $a = -1, 2, 5, 8, \dots$
8. $-100, a = 16, 12, 8, \dots$
9. $19, a = -114, -107, -100, \dots$

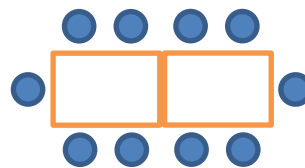
10. You are setting up tables for a dinner.

One table seats six people like this:



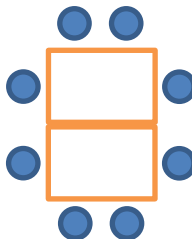
a. If you line up the tables like this:

write a sequence for the number of seats (a_n)
in terms of the number of tables (n)



b. If you line up the tables like this:

write a sequence for the number of seats (a_n)
in terms of the number of tables (n)



c. If you have 100 tables, how many people can be seated in each layout?