

Arithmetic Sequence Fill-in-the-Gaps Worksheet

Complete each sentence by filling in the missing word or number. Use your knowledge of arithmetic sequences to help you.

1. In an arithmetic sequence, the difference between consecutive terms is called the _____.
2. The first term of an arithmetic sequence is 7, and the common difference is 3. The second term is _____.
3. The sequence 4, 9, 14, 19, ... has a common difference of _____.
4. The n th term of an arithmetic sequence can be found using the formula: $a_n = a_1 + (n - 1) \times d$, where a_1 is the _____ term and d is the common difference.
5. If the first term of an arithmetic sequence is 12 and the common difference is -2, the third term is _____.
6. In the sequence 20, 16, 12, 8, ..., the common difference is _____ and the fifth term is _____.
7. The sequence 2, 5, 8, 11, ... is an example of an arithmetic sequence because each term increases by _____.
8. The tenth term of the arithmetic sequence 3, 7, 11, ... is _____.
9. If the common difference of a sequence is 0, all the terms in the sequence are _____.
10. The sum of the first four terms of the sequence 1, 4, 7, 10, ... is _____.

Answer Key

1. common difference
2. 10
3. 5
4. first
5. 8
6. -4, 4
7. 3
8. 39
9. equal (or the same)
10. 22