

Arithmetic Sequence Practice

Name _____



Name the first five terms of each arithmetic sequence described.

1. $f(1) = 4, d = 3$ 1. _____
2. $f(1) = 7, d = 5$ 2. _____
3. $f(1) = 16, d = -2$ 3. _____
4. $f(1) = 38, d = -4$ 4. _____
5. $f(1) = \frac{3}{4}, d = -\frac{1}{4}$ 5. _____

Name the next four terms of each arithmetic sequence.

6. 5, 9, 13, ... 6. _____
7. 2, -3, -8, ... 7. _____
8. 21, 15, 9, ... 8. _____
9. $\frac{1}{2}, \frac{3}{2}, \frac{5}{2}, \dots$ 9. _____

Find the n^{th} term of each arithmetic sequence.

10. $f(1) = -1, d = -10, n = 25$ 10. _____
11. $f(1) = -3, d = -9, n = 11$ 11. _____
12. $f(1) = -7, d = 3, n = 17$ 12. _____
13. $f(1) = 2, d = \frac{1}{2}, n = 8$ 13. _____

Complete each statement.

14. 124 is the _____th term of $-2, 5, 12, \dots$ 14. _____
15. -28 is the _____th term of $7, 2, -3, \dots$ 15. _____
16. $-\frac{17}{4}$ is the _____th term of $2\frac{1}{4}, 2, 1\frac{3}{4}, \dots$ 16. _____

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Find the indicated term in each arithmetic sequence.

17. $f(12)$ for $-17, -13, -9, \dots$ 17. _____

18. $f(21)$ for $10, 7, 4, \dots$ 18. _____

19. $f(32)$ for $4, 7, 10, 13, \dots$ 19. _____

20. $f(10)$ for $8, 3, -2, \dots$ 20. _____

Find the missing terms in each arithmetic sequence.

21. $55, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 115$ 21. _____

22. $-10, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 2$ 22. _____

23. $\underline{\hspace{1cm}}, -6, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 15, \underline{\hspace{1cm}}$ 23. _____

24. $\underline{\hspace{1cm}}, 49, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 28$ 24. _____

25. The last term of an arithmetic sequence is 207, the common difference is 3, and the number of terms is 14. What is the first term? 25. _____

26. The third term of an arithmetic sequence is 14 and the ninth term is -1 . Find the first four terms of the sequence. 26. _____

27. During a free fall, a skydiver falls 16 feet in the first second, 48 feet in the 2nd second, and 80 feet in the third second. If she continues to fall at this rate, how many feet will she fall during the 8th second? 27. _____