

# 10-2 Study Guide and Intervention

## Arithmetic Sequences and Series

### Arithmetic Sequences

Term	Definition	Example
Common Difference	$d = a_{n+1} - a_n$	The common difference is an arithmetic sequence with consecutive terms $\dots, 5, 7, \dots$ is $7 - 5 = 2$ .
$n$ th Term of an Arithmetic Sequence	$a_n = a_1 + (n - 1)d$ where $a_1$ is the common difference and $n$ is any positive integer.	The 13th term of the arithmetic sequence with first term 3 and common difference 2 is $3 + 14 \times 2 = 31$ .

**Example 1:** Find the thirteenth term of the arithmetic sequence with  $a_1 = 21$  and  $d = -6$ .  
Use the formula for the  $n$ th term of an arithmetic sequence with  $a_1 = 21$ ,  $n = 13$ , and  $d = -6$ .

$$a_n = a_1 + (n - 1)d \quad \text{Formula for the } n\text{th term}$$

$$a_{13} = 21 + (13 - 1)(-6) \quad n = 13, a_1 = 21, d = -6$$

$$a_{13} = -31$$

**Example 2:** Write an equation for the  $n$ th term of the arithmetic sequence  $-14, -5, 4, 13, \dots$ .

In this sequence,  $a_1 = -14$  and  $d = 9$ .

Use the formula for  $a_n$  to write an equation.

$$a_n = a_1 + (n - 1)d$$

Formula for the  $n$ th term

$$a_n = -14 + (n - 1)(9)$$

$$a_1 = -14, d = 9$$

$$a_n = -14 + 9n - 9$$

Distributive Property

$$a_n = 9n - 23$$

Simplify.

### Exercises

Find the indicated term of each arithmetic sequence.

1. Find the seventeenth term of the arithmetic sequence with  $a_1 = 15$  and  $d = 4$ .

2. Find the seventh term of the arithmetic sequence with  $a_1 = -81$  and  $d = 12$ .

3. Find  $a_{100}$  of the arithmetic sequence  $18, 15, 12, 9, \dots$

4. Find  $a_{100}$  of the arithmetic sequence  $-63, -58, -53, -48, \dots$

Write an equation for the  $n$ th term of each arithmetic sequence.

5.  $a_1 = 15$  and  $d = 38$

6.  $a_1 = 72$  and  $d = -13$

7.  $-54, -52, -50, 33, \dots$

8.  $63, 70, 77, 84, \dots$

Find the arithmetic means in each sequence.

9.  $17, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 41$

10.  $235, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 30$

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**Yicheng Fang**



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