

**IDENTIFYING TERMS AND LIKE TERMS** Identify the terms and like terms in the expression.

(See Example 1.)

9.  $t + 8 + 3t$

$4t + 8$   
 terms:  $t, 8, 3t$   
 like terms:  $t$  and  $3t$

11.  $2n - n - 4 + 7n$

$8n - 4$   
 terms:  $2n, -n, -4, 7n$   
 like terms:  $2n$  and  $7n$  and  $-n$

13.  $1.4y + 5 - 4.2 - 5y^2 + z$

10.  $3z + 4 + 2 + 4z$

terms:  $3z, 4, 2, 4z$   
 like terms:  $3z$  and  $4z$   
 $4$  and  $2$

12.  $-x - 9x^2 + 12x^2 + 7$

$3x^2 - x + 7$

14.  $\frac{1}{2}s - 4 + \frac{3}{4}s + \frac{1}{8} - s^3$



15. **YOU BE THE TEACHER** Your friend identifies the terms and like terms in the expression  $3x - 5 - 2x + 9x$ . Is your friend correct? Explain your reasoning.

no you need to include the sign in front so it should be  $-5$

$3x - 5 - 2x + 9x$   
 Terms:  $3x, 5, 2x,$  and  $9x$   
 Like Terms:  $3x, 2x,$  and  $9x$

**SIMPLIFYING ALGEBRAIC EXPRESSIONS** Simplify the expression. (See Examples 2 and 3.)

16.  $12g + 9g$

$21g$

17.  $11x + 9 - 7$

$11x + 2$

18.  $8s - 11s + 6s$

$3s$

19.  $4b - 24 + 19$

$4b - 5$

20.  $4p - 5p - 30p$

$-31p$

21.  $4.2v - 5 - 6.5v$

$-2.3v - 5$

22.  $8 + 4a + 6.2 - 9a$

$14.2 - 5a$

23.  $\frac{2}{5}y - 4 + 7 - \frac{9}{10}y$

$-\frac{1}{2}y + 3$

24.  $-\frac{2}{3}c - \frac{9}{5} + 14c + \frac{3}{10}$

$13\frac{1}{3}c - 1\frac{1}{2}$