## **Practice 2-3**

Simplify each expression.

1. 
$$16 + 7y - 8$$

**2.** 
$$18m - 7 + 12m$$

3. 
$$5(3t) - 7(2t)$$

**4.** 
$$2x - 9y + 7x + 20y$$

**5.** 
$$3(9k-4)-4(5n-3)$$

**6.** 
$$6(g-h)-6(g-h)$$

**7.** 
$$-21(a+2b) + 14a - 9b$$
 **8.**  $-7a + 3(a-c) + 5c$ 

**8.** 
$$-7a + 3(a - c) + 5a$$

**9.** 
$$-2(-5)q + (-72)(-q)$$

Name the coefficients, any like terms, and any constants.

## Coefficients

## **Like Terms**

**10.** 
$$3x + 7$$

**11.** 
$$4m + (-3n) + n$$

**12.** 
$$6kp + 9k + kp - 14$$
 \_\_\_\_\_

**13.** 
$$-8y + 6ab + 7 - 3ba$$
 \_\_\_\_\_

**14.** 
$$c + 2c + c - 5c + 1$$

Write an expression for each model. Simplify the expression.









16.



Justify each step.

**17.** 
$$5(n+4) + 9n = (5n+20) + 9n$$

$$=5n + (20 + 9n)$$

$$=5n + (9n + 20)$$

$$= (5n + 9n) + 20$$

$$= (5 + 9)n + 20$$

$$= 14n + 20$$

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