



## 4-7 Additional Practice

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Multimedia**Leveled Practice** In 1–2, fill in the missing signs or numbers.

1. Write an equivalent expression to  $m - (8 - 3m)$  without parentheses.

$$\begin{aligned} m & \bigcirc 8 \bigcirc 3m \\ &= m \bigcirc 3m \bigcirc 8 \\ &= \boxed{\phantom{00}} m \bigcirc 8 \end{aligned}$$

2. Write an equivalent expression to  $-2(1.5h + 5) - 4(-0.5 + 3h)$ .

$$\begin{aligned} & -2 \cdot \boxed{\phantom{00}} + (-2) \cdot \boxed{\phantom{00}} - \\ & 4 \cdot \boxed{\phantom{00}} + (-4) \cdot \boxed{\phantom{00}} \\ &= \boxed{\phantom{00}} h + \boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} h \\ &= \boxed{\phantom{00}} h + \boxed{\phantom{00}} \end{aligned}$$

3. A bag of mixed nuts contains almonds and hazelnuts. There are  $(6x + 13)$  nuts in this particular bag, and  $(3x - 7)$  of these are hazelnuts.

- a. Which expression represents the number of almonds in the bag?

Ⓐ  $6x + 13 - (3x - 7)$

Ⓒ  $6x + 13 - 3x - 7$

Ⓑ  $3x - 7 - 6x + 13$

Ⓓ  $3x - 7 - (6x + 13)$

- b. There are  almonds in the bag.

4. Simplify each expression.

a.  $10x - (-7 + 6x)$

b.  $12y - (-4 - 8y)$

c.  $14z - 3 - (6 - 5z)$

d.  $(-9p + 7) - (-9p + 3)$

5. Subtract  $(7.8 - 5.1t)$  from  $(2.8 - 3.2t)$ . Use the Commutative Property to show the difference another way.

6. **Critique Reasoning** Tim simplified the difference  $\frac{1}{2}p - \left(\frac{1}{4}p - 4\right)$  as  $\frac{3}{4}p - 4$ . Did he find the correct difference? Explain. © MP.3



In 7–8, subtract the expressions.

7.  $(-4b + 15 - 7k) - (6 + 4b - 2k)$

8.  $(7j + \frac{1}{8}q + 3) - (\frac{5}{8}q - 11 + 2j)$

**9. Higher Order Thinking** Make a conjecture about what happens when expressions are subtracted in the opposite order. What happens when the results are added? Support your conjecture with an example in which several of the signs are negative.

## Assessment Practice

10. Which simplified expression is the difference of  $(0.5n + 0.3) - (0.75n - 0.45)$ ?

Ⓐ  $-0.25n + 0.15$

Ⓑ  $0.25n - 0.75$

Ⓒ  $-0.25n + 0.75$

Ⓓ  $0.25n - 0.15$

11. Match each expression on the left that is equivalent to the expression on the right.

$6x + 13 - (3x - 7)$

$3x + 6$

$3x - 7 - 6x + 13$

$-3x + 6$

$6x + 13 - 3x - 7$

$-3x - 20$

$3x - 7 - (6x + 13)$

$3x + 20$

