

## Pretest

Use the Distributive Property to write each expression as an equivalent algebraic expression.

1.  $6(s + 10)$

2.  $9(a - 4)$

3.  $-5(3 - b)$

4.  $11(m + 7)$

5. Suppose you pay \$15 per hour to go horseback riding. You ride 2 hours today and plan to ride 4 more hours this weekend. Write two equivalent expressions for the total cost of horseback riding. Then, find the total cost.

1.  $6(s) + 6(10)$

2.  $9(a) - 9(4)$

3.  $-5(3) - -5(b)$

4.  $11(m) + 11(7)$

5.  $15(2+4)$  } \$90  
 $15(2) + 15(4)$  }

Simplify each expression.

6.  $x + 3x + 4$

7.  $10z + 6z - 11 + 7$

8.  $mn + 3(2mn - 4)$

9.  $-7s - 5s - 4$

6.  $4x + 4$

7.  $16z - 4$

8.  $7mn - 12$

9.  $-12s - 4$

Add or subtract. Use models if needed.

10.  $(x + 3) + (7x + 3)$

11.  $(x + 2) - (-3x - 8)$

12.  $(7x + 1) - (4x + 8)$

13.  $(4x - 3) + (-3x + 1)$

10.  $8x + 6$

11.  $4x + 10$

12.  $3x - 7$

13.  $x - 2$

Find the GCF of each pair of monomials.

14.  $9x, 12x$

15.  $20b, 8b$

14.  $3x$

15.  $4b$

Factor each expression. If the expression cannot be factored, write *cannot be factored*. Use algebra tiles if needed.

16.  $21x + 7$

17.  $5x + 12$

18.  $8 - 14x$

16.  $7(3x+1)$

17. CANNOT BE FACTORED

18.  $2(4-7x)$