

Chapter 7 - Pretest

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

1. $6(s + 10)$

1. _____

2. $9(a - 4)$

2. _____

3. $-5(3 - b)$

3. _____

4. $11(m + 7)$

4. _____

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.

5. _____

Simplify each expression.

6. $x + 3x + 4$

6. _____

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

7. _____

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

8. _____

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

9. _____

Add or subtract. Use models if needed.

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

10. _____

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

11. _____

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

12. _____

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

13. _____

Find the GCF of each pair of monomials.

14. $9x, 12x$

14. _____

15. $20b, 8b$

15. _____

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

16. $21x + 7$

16. _____

17. $5x + 12$

17. _____

18. $8 - 14x$

18. _____