Lesson 4-4: Expand Expressions

1. The value does not change when expanded. It is just another way to write an expression by distributing a value to 2 or more terms.

2. Sample answer: Subtraction within parentheses changes to subtraction of two products when *a(b - c)* is expanded to *ab - ac*.

3. Sample answer: When *a* and *c* are both negative or positive values.

4. $\frac{1}{4}$s + 6.20

5. 4x - 3.4xy

6. $\frac{4}{10}$x - $\frac{6}{10}$

7. n; 7
   3n + 21

8. 4; 4
   4x - 12

9. 0.5y + 8y or 8.5y

10. 4 + 16x

11. 6y + 6x

12. -12.5 - 10n

13. - $\frac{1}{3}$y + $\frac{1}{3}$x

14. 48x - 32

15. 6b represents the original price of all 6 loaves, and -0.78b represents the total discount from the sale.

16. Sample answer: The gardener added 4 and 7 instead of multiplying them.

17. 11x - 11y

18. Sample answer: -7.52 - 2.8y

19. 49x - 21y - 6

20. -3y - 8xy

21. 5x + 40

22. A, D

23. 3 - $\frac{7}{5}$y