Lesson 4-6: Add Expressions

1. Sample answer: The properties of operations for adding expressions are the same as the properties for adding integers.

2. Coefficients can only be combined when variables are the same, so two terms with different variables cannot be added to make one new term.

3. Commutative and Associative Properties

4. No; Like terms only need to have the same variable, not the same sign.

5. 52.50 + 27.75m

6. $\frac{1}{6}n + \frac{1}{6}m + \frac{2}{3}$

7. 0.6t - 4.3s - 2.6

8. 4a; 5
   6a

9. $\frac{2}{7}x; \frac{1}{7}x; 8$
   $\frac{3}{7}; 1$

10. 8b + 6x + 5c + 11

11. 14m + 4y + 1

12. 6b + 10

13. x + 3x + 1 + x + 2
    5x + 3

14. a. 7, 1
    b. 4
    c. Sarah did not include the coefficient 1 for *n*.

15. 15x + 11

16. x + 6x - 5
    7x - 5

17. a. -x + 9
    b. Terms that have the same variable or variables can be combined.

18. a. 14.99k + 49
    b. $93.97

19. a. $25 + \frac{1}{10}x; \frac{3}{10}x - 20; 21 + \frac{1}{10}x$
    b. Sample answer: $\frac{1}{5}x + 46$