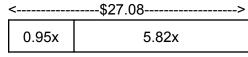
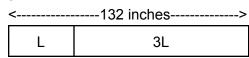
Lesson 2-1: Combine Like Terms to Solve Equations

- Sample answer: To solve an equation, I need to have one variable term by itself on one side of the equation. So when there is more than one term with the variable, I have to combine them. Then I use inverse operations to solve for the variable.
- 2. Sample answer: Two or more terms will have the same variables raised to the same powers.
- 3. Sample answer: The like terms are 0.75s and $\frac{5}{8}$ s. You would need to write $\frac{5}{8}$ s as 0.625s and subtract that from 0.75s. You could also write 0.75s as $\frac{3}{4}$ s and subtract $\frac{5}{8}$ s.
- 4. 30 cakes
- 5. 500,000 people
- 6. z = 7
- 7. 11 $\frac{20}{11}$; 11; $\frac{20}{11}$ 20
- 8. 0.2 - 0.2 - 27
- 9. x = 135
- 10. x = -23
- 11. x = 3
- 12. x = 70
- 13. \$30 per square foot

- 14. 32 pounds
- 15. 780 feet below sea level
- 16. Sample answer:1.2y 4.2y = 3.78;y = 0.7
- 17. h = $239\frac{5}{16}$
- 18. 4 classes



- 19. C
- 20. a.



b. Sample answer:

$$L + 3L = 132$$

 $4L = 132$
 $L = 33$ inches