

**LESSON**  
**6.1**

Name \_\_\_\_\_ Date \_\_\_\_\_

**Practice B**

For use with pages 271-275

Lesson 6.1

**Decide whether the given value is a solution of the equation. If not, find the solution.**

- |                                 |                                    |
|---------------------------------|------------------------------------|
| 1. $4w - 9(6 - 5w) = 44; w = 3$ | 2. $9m - 7m - 5 = 17; m = 11$      |
| 3. $9x - 8 - 5x = 12; x = 5$    | 4. $\frac{3g - 7}{4} = 8; g = 12;$ |

**Solve the equation. Then check your solution.**

- |                           |                             |                             |
|---------------------------|-----------------------------|-----------------------------|
| 5. $6x - 2x - 9 = 7$      | 6. $15f - 8f + 13 = 55$     | 7. $2w + 4(7 + 3w) = -14$   |
| 8. $4a + 5 - 3a = 27$     | 9. $-5(w - 3) = 45$         | 10. $-8m - 9(5 - 3m) = 12$  |
| 11. $\frac{k - 4}{9} = 3$ | 12. $\frac{3t + 5}{8} = -5$ | 13. $\frac{8c - 4}{7} = 12$ |

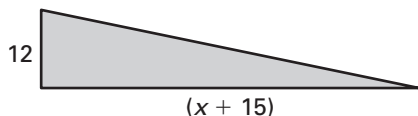
14. Six friends went out to dinner. Each person ordered the same dinner, which cost \$15.85. The friends left a combined tip of \$14. What was the total of the bill and tip?
15. On Friday, you raked leaves for 4 neighbors, on Saturday you raked leaves for 5 neighbors, and on Sunday you raked leaves for 3 neighbors. For these three days, you earned \$135. How much money did you earn for each house at which you raked leaves?

**Solve the equation. Then check your solution.**

- |                           |                               |
|---------------------------|-------------------------------|
| 16. $7w - 3w + 4w = -15$  | 17. $6m - 7 - 4m - 16 = -23$  |
| 18. $9p + 4(2 + p) = -18$ | 19. $-19 = \frac{28 - k}{16}$ |

**Write an equation for the area of the triangle. Then solve for  $x$ .**

20. The lengths are in meters.  
The area is 348 square meters.



21. The lengths are in yards.  
The area is 595 square yards.

