NAME _____ DATE _____

Practice B

For use with pages 19–24

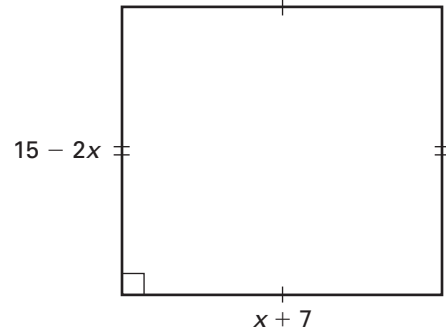### Solve the equation. Check your solution.

1. $x - 8 = 12$ **2.** $2x + 3 = 7$ **3.** $5x - 2 = 13$

4. $6 - x = 4$ **5.** $9 - 3x = -3$ **6.** $8x + 3 = 5$

7. $3x - 5 = 9$ **8.** $x + 4 = 2x + 9$ **9.** $3x - 1 = x + 4$

10. $4 + 5x = x - 8$ **11.** $\frac{1}{2}x + 6 = -4$ **12.** $\frac{2}{3}x - 1 = x + 7$

13. $-(x + 1) = 2(3x - 1)$ **14.** $3(x - 2) = 5(4 + x)$ **15.** $2(7 - x) = 6(1 + 2x)$

16. $3(x + 4) = 3(8 - 2x)$ **17.** $\frac{1}{2}(4x + 10) = 5 - 3x$ **18.** $\frac{1}{3}x + 1 = -\frac{1}{3}x - 8$

19. $\frac{3}{2}(x - 5) = 7$ **20.** $\frac{1}{4}x + 2 = 3 - \frac{3}{4}x$ **21.** $5(2x - 2) = 4 - 2x$

Find the dimensions of the figure.

22. The perimeter of the figure is 35 feet.

$3x - 5$

$2x - 3$

$15 - x$
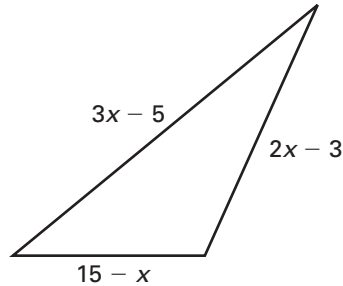
23. The perimeter of the figure is 38 feet.

$15 - 2x$

$x + 7$

24. *Sales Tax* The state sales tax in Pennsylvania is 0.06 (or 6%). If your total bill at the music store included $1.32 in tax, how much did the merchandise cost?

25. *Movie Tickets* A ticket to the movies costs $7. You have $21. How many tickets can you buy?

26. *Weekly Pay* You have a summer job that pays $5.60 an hour. You get $8.40 an hour for overtime (anything over 40 hours). How many hours of overtime must you work to earn $287?

27. *Plumbing Bill* The bill from your plumber was $134. The cost for labor was $32 per hour. The cost for materials was $46. How many hours did the plumber work?

28. *Travel Time* You want to visit your aunt who lives 255 miles away. The interstate is 10 miles from your house and once you get off the interstate, you must travel 14 miles more to get to your aunt's house. If you drive 55 miles per hour on the interstate, how many hours will you travel on the interstate?

29. *Babysitting Rate* You charge $2 plus $.50 per child for every hour you babysit. You earn $3.50 an hour when you watch the Crandell children. How many children are in this family?