Name

Practice A

For use with the lesson "Solve Multi-Step Equations"

Check whether the given number is a solution of the equation.

3. $\frac{1}{2}(8x-6) = 1; 1$ **2.** 7 + 2(m - 4) = 3; 1**1.** 6x + 1 - 5x = 7; 2

State the first step in solving the equation.

4. 13y + 7y - 6 = 11 **5.** 5(a - 4) = 44 **6.** $\frac{1}{3}(m - 4) = 5$ **7.** 7 + 6(w - 3) = 31 **8.** 8d - 4 - 6d = 22**9.** 7 - 3(p + 6) = 27

Solve the equation.

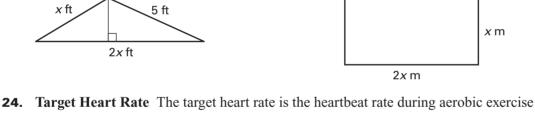
11. 9n - 4 + n = 16**12.** 7c + 3 - 5c = 15**10.** 3a + 2a + 7 = 12**13.** 16 - 3y + 4y = 27 **14.** 2 + 3(x + 1) = 17 **15.** 15 + 4(m - 2) = 21**16.** 2p + 3(p + 3) = 21 **17.** 6w + 5(w - 2) = 23 **18.** 7 - 3(x + 2) = 4**20.** $\frac{1}{3}(m+6) = 4$ **21.** $\frac{1}{8}(w-7) = 5$ **19.** $\frac{1}{4}(d-5) = 1$

Find the value of x for the triangle or rectangle.

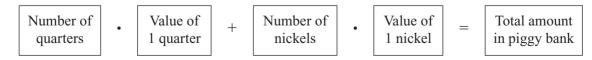
22. Perimeter = 17 feet

23. Perimeter = 18 meters

Date _



- that provides a benefit to your heart. The target heart rate for a person exercising at 70% intensity is given by the equation y = 0.7(200 - x) where y is the target heart rate in beats per minute and x is the person's age in years.
 - **a.** How old is a person with a target heart rate of 133 beats per minute?
 - **b.** How old is a person with a target heart rate of 126 beats per minute?
- **25.** Spare Change You have quarters and nickels saved in a piggy bank. There is a total of \$3.45 in quarters and nickels and there are 9 more nickels than quarters.
 - **a.** Use the verbal model to write an equation that you can use to find the number of nickels and quarters in your piggy bank. Let q represent the number of quarters.



b. How many nickels and quarters are in the piggy bank?

LESSON

2.4