

14. $2r + 20 = 200$ **90** 15. $21 = 3g - 6$ **9** 16. $\frac{3}{5}k + 5 = 7$ **$\frac{10}{3}$** 17. $2.5x + 4.5 = -8$ **-5**
18. Christine's video store membership cost \$5.00, and it costs \$3.50 to rent a DVD. Christine spent \$29.50 her first month. How many DVDs did she rent? **7**
19. A fund-raiser raised \$2400, which was $\frac{3}{5}$ of the goal. Write and solve an equation to find the amount of the goal. **$\frac{3}{5}g = 2400$; \$4000**

✓ 2-3 Solving Multi-Step Equations

Solve each equation.

20. $4(x - 7) = 2$ **7.5** 21. $\frac{2}{3} - \frac{y}{4} = \frac{5}{12}$ **1**
22. $5n + 6 - 3n = -12$ **-9** 23. $\frac{3}{4}(8 + 2y) = 3$ **-2**
24. A taxicab company charges \$2.10 plus \$0.80 per mile. Carmen paid a fare of \$11.70. Write and solve an equation to find the number of miles she traveled. **$2.10 + 0.80m = 11.70$; 12 mi**
25. If $2(x + 3) = 24$, find the value of $x - 6$. **3**

✓ 2-4 Solving Equations with Variables on Both Sides

Solve each equation.

26. $4x - 3 = 2x + 5$ **4** 27. $3(2x - 5) = 2(3x - 2)$ **∅**
28. $2(2t - 3) = 6(t + 2)$ **-9** 29. $7(x + 5) = -7(x + 5)$ **-5**
30. On the first day of the year, Diego had \$700 in his savings account and started spending \$35 a week. His brother Juan had \$450 and started saving \$15 a week. After how many weeks will the brothers have the same amount? What will that amount be? **5 weeks; \$525**