Name_____ Date _____

## 1.2 Practice B

**In Exercises 1–6, solve the equation. Check your solution.**

**1.** $8 = \dfrac{t}{-3} + 4$

**2.** $\dfrac{p + 5}{-2} = 9$

**3.** $3k + 2k = 60$

**4.** $-43 = 12 - 6p + p$

**5.** $28 = 8b + 13b - 35$

**6.** $-11j - 6 + 3j = -30$

**7.** A bill to landscape your yard is $720. The materials cost $375 and the labor is $34.50 per hour. Write and solve an equation to find the number of hours of labor spent landscaping your yard.

**In Exercises 8–11, solve the equation. Check your solution.**

**8.** $12 - 5(3r + 2) = 17$

**9.** $3(x - 2) + 5(2 - x) = 16$

**10.** $3 = -1(v - 4) + 4(2v - 9)$

**11.** $6(q - 7) - 3(4 - q) = 0$

**In Exercises 12–14, write and solve an equation to find the number.**

**12.** Seven plus the quotient of a number and 5 is $-12$.

**13.** The difference of three times a number and half the number is 60.

**14.** Eight times the difference of a number and 3 is 40.

**15.** Justify each step of the solution.

| | |
|---|---|
| $7 - 2(x - 10) = 15$ | Write the equation. |
| $7 - 2(x) - 2(-10) = 15$ | |
| $7 - 2x + 20 = 15$ | |
| $-2x + 27 = 15$ | |
| $-2x = -12$ | |
| $x = 6$ | |

**16.** An odd integer can be represented by the expression $n + 2$, where $n$ is any odd integer. Find three consecutive odd integers that have a sum of $-51$.