

Lesson 5 Homework Practice

Solve Multi-Step Equations

Solve each equation. Check your solution.

1. $5(x - 3) + 2x = 41$

2. $4a - 3(a - 2) = 2(3a - 2)$

3. $(7t - 2) - (-3t + 1) = -3(1 - 3t)$

4. $14 - 2(3p + 1) = 6(4 + p)$

5. $\frac{2}{7}\left(14q + \frac{7}{2}\right) - 3q = 9$

6. $x - (4x - 7) = 5x - (x + 21)$

7. **BACKPACKING** Guido and Raoul each went backpacking in Glacier National Park. The expressions $4(d + 2) - 2d$ and $3(2 + d)$ represent the respective distances Guido and Raoul hiked each day. On what day number d will their distance hiking be the same?

8. SAVINGS The table at the right shows the savings account balance of each of the Alvarez siblings.

- a. Write an equation to find the amount of money in Petros's account if the total of all of their accounts is \$148.

Sibling	Account Balance
Cindy	s
Petros	$2(s + 3)$
Nila	$4s - 5$

- b. Solve the equation from part *a* to find the amount of money in Petros's account.

9. LAWNS Luisa mows lawns during the summer. She charges \$15 if she cuts the grass but charges \$5 more if she also trims the grass. Last week she trimmed 5 more yards than she cut. If she made \$415 last week, how many yards did she trim?