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**Course 3** • Multi-Step Equations and Inequalities

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

**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?

**7.** **BACKPACKING** Guido and Raoul each went backpacking in Glacier

National Park. The expressions 4(*d* + 2) – 2*d* 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?

**Homework Practice**

***Solve Multi–Step Equations***

4*s* – 5

Nila

2(*s* + 3)

Petros

*s*

Cindy

**Account Balance**

**Sibling**

**b.** Solve the equation from part *a* to find the

amount of money in Petros’s account.

**a.** Write an equation to find the amount of money

in Petros’s account if the total of all of their accounts is $148.

**8.** **SAVINGS** The table at the right shows the savings

account balance of each of the Alvarez siblings.

**6.** *x* – (4*x* – 7) = 5*x* – (*x* + 21)

**4.** 14 – 2(3*p* + 1) = 6(4 + *p*)

**3.** (7*t* – 2) – (–3*t* + 1) = –3(1 – 3*t*)

**2.** 4*a* – 3(*a* – 2) = 2(3*a* – 2)

**1.** 5(*x* – 3) + 2*x* = 41

**Solve each equation. Check your solution.**

PERIOD

 DATE

NAME \_\_\_\_\_\_