





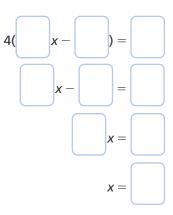
## 2-3 Additional Practice

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**Leveled Practice** In 1–3, find the value of x.

1. Donavon and three friends go to a fair. They each spend  $\frac{1}{2}$  of their money on rides. Then they each spend \$3 on food. At the end of the day, Donavon and his friends have a total of \$8 remaining. How much money did each person bring to the fair?



Donavon and his friends each brought a total of \$

2. Use the Distributive Property to solve the equation 25 - (3x + 5) = 2(x + 8) + x.

3. Use the Distributive Property to solve the equation 2(x-3) + 3 = 6x - 5.

- **4.** Solve the equation  $\frac{1}{5}(x-2) = \frac{1}{10}(x+6)$ .
- **5.** Solve the equation 0.35(x + 4) = 0.25(x 6).
- **6.** If you take  $-\frac{3}{10}$  of a number and add 1, you get 10. Let x represent the original number.
  - a. Write an equation that represents the situation.
  - **b.** What is the original number?

- **7.** Solve the equation -9(x + 6) = -207.
- **8.** Use the Distributive Property to solve the equation 5x 3(x 3) = -6 + 6x 5.
- **9. Higher Order Thinking** The length of a postage stamp is  $4\frac{1}{4}$  millimeters longer than its width. The perimeter of the stamp is  $124\frac{1}{2}$  millimeters.
  - a. Write the equation that represents the situation.
  - **b.** What is the width of the postage stamp?
  - c. What is the length of the postage stamp?

## (©) Assessment Practice

**10.** You are given the equation  $2(\frac{1}{2}t+3)=1$  to solve as part of a homework assignment.

**PART A** 

Describe the first step needed to solve the equation.

**PART B** 

Solve the equation for t. Show your work.

**11.** Solve the equation 2(6 - x) = 3. Show your work.