

Name: _____



PRACTICE



TUTORIAL

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?

$$4(\boxed{}x - \boxed{}) = \boxed{}$$

$$\boxed{}x - \boxed{} = \boxed{}$$

$$\boxed{}x = \boxed{}$$

$$x = \boxed{}$$

Donavon and his friends each brought a total of \$ $\boxed{}$.

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

$$25 - \boxed{}x - \boxed{} = 2x + \boxed{} + x$$

$$20 - \boxed{}x = \boxed{}x + \boxed{}$$

$$20 - \boxed{}x = \boxed{}$$

$$\boxed{}x = \boxed{}$$

$$x = \boxed{}$$

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

$$\boxed{}x - \boxed{} + 3 = 6x - \boxed{}$$

$$\boxed{}x - \boxed{} = 6x - \boxed{}$$

$$\boxed{}x - \boxed{} = \boxed{}$$

$$\boxed{}x = \boxed{}$$

$$x = \boxed{}$$

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.

