



5-3 Additional Practice

Scan for
Multimedia**Leveled Practice** Use the Distributive Property to solve the equations.

1. $-4(x + 3) = 8$

$$\left(\boxed{} \right) + \left(\boxed{} \right) = 8$$

$$\boxed{} + \boxed{} = 8$$

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

$$x = \boxed{}$$

$$x = \boxed{}$$

2. $3 = \frac{3}{4}(b - 8)$

$$3 = \left(\boxed{} \right) + \left(\boxed{} \right)$$

$$3 = \boxed{} - \boxed{}$$

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

$$\boxed{} = b$$

$$\boxed{} = b$$

3. $\frac{1}{6}(p + 24) = 10$

$$\left(\frac{1}{6} \cdot \boxed{} \right) + \left(\frac{1}{6} \cdot \boxed{} \right) = \boxed{}$$

$$p = \boxed{}$$

4. $\frac{3}{5}(a + 5.25) = 7.35$

$$\boxed{}(a) + \boxed{}(5.25) = 7.35$$

$$a = \boxed{}$$

5. Use the following equation: $6(t + 12) = 114$

a. Make Sense and Persevere If you apply the Distributive Property to solve the equation, what operation will you need to use first? © MP.1

b. What operation will you use last?

6. A family buys 5 airline tickets and travel insurance that costs \$17 per ticket. The total cost is \$1,495. Let x represent the price of one ticket.

a. Write an equation to represent this situation.

b. What is the price of one ticket?

7. Ashley has x dollars. She spends \$23.50 on a new top. She decides to keep $\frac{2}{5}$ of what she has left, which is \$13.80. How many dollars did Ashley have originally?



8. The equation at the right has been incorrectly solved.

a. What error was made?

b. What is the correct solution?

$$\begin{aligned} -4(6 - b) &= 4 \\ -24 - 4b &= 4 \\ -4b &= 28 \\ b &= -7 \end{aligned}$$

9. Lasandra wants to center a towel bar on her door that is 29 inches wide. She determines that the distance from each end of the towel bar to the end of the door is 7.75 inches. Write and solve an equation to find the length of the towel bar.

10. **Higher Order Thinking** The ticket price for a concert at a historic music hall includes \$6.40 for the concert, \$4.80 for the program, and a hall restoration fee. The price for 11 tickets is \$128.15.

a. Write an equation to represent the cost of the hall restoration fee, f .

b. Solve the equation to find the cost of the hall restoration fee.

Assessment Practice

11. Latrece sells bracelets for a fixed price at the craft show. For every bracelet she sells, she gives her business partner \$4. If Latrece sells 18 bracelets for a total of \$207, how much money will Latrece keep from each bracelet sold?

12. What series of steps would result in the correct solution to the equation $-8(0.5y - 3) = 3$?

Ⓐ Distribute -8 . Add 24 to both sides. Divide by 4.

Ⓑ Distribute -8 . Subtract 24 from both sides. Divide by 4.

Ⓒ Distribute -8 . Subtract 24 from both sides. Divide by -4 .

Ⓓ Distribute -8 . Add 24 to both sides. Divide by -4 .

