

**LESSON**  
**11-9**

**Practice C**  
***Solving Integer Equations***

Solve each equation. Check your answers.

1.  $-72 \div x = -4$

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2.  $29 + x = -32$

\_\_\_\_\_

3.  $-6x = -78$

\_\_\_\_\_

4.  $-12 - x = -8$

\_\_\_\_\_

5.  $x + (-38) = 50$

\_\_\_\_\_

6.  $\frac{x}{9} = -15$

\_\_\_\_\_

7.  $-3 + x - (-2) = 10$

\_\_\_\_\_

8.  $(x - 12) \div 4 = -8$

\_\_\_\_\_

9.  $-x = 83$

\_\_\_\_\_

10.  $-102 \div x = -6$

\_\_\_\_\_

11.  $13 + x = \frac{-8}{2}$

\_\_\_\_\_

12.  $(59 - 24)x = 0$

\_\_\_\_\_

13.  $\frac{-55}{x} = -6 + 17$

\_\_\_\_\_

14.  $2x - x = -6$

\_\_\_\_\_

15.  $x^2 = 4$

\_\_\_\_\_

Use each set of integers and the given value of the variable to write an equation with a variable.

16.  $-15, -3, x = 5$

\_\_\_\_\_

17.  $-7, -3, x = -4$

\_\_\_\_\_

18.  $24, -8, x = -3$

\_\_\_\_\_

19.  $-2, 9, x = 11$

\_\_\_\_\_

20.  $48, -6, x = -8$

\_\_\_\_\_

21.  $-1, 7, -18, x = -3$

\_\_\_\_\_

22. Describe the two steps needed to solve the following equation:  
 $-20 - x = -9$ .

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\_\_\_\_\_  
\_\_\_\_\_

23. Explain why the following equation has no solution:  $x^2 = -9$ .

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