

Practice 3-4

Using Number Sense to Solve One-Step Equations

Find the missing number that makes the equation true.

1. $7 + \square = 12$

2. $\square \times 5 = 30$

3. $13 - \square = 4$

Tell whether each equation is true or false.

4. $12 + 10 = 10 + 12$

5. $31 + 4 = 41 + 3$

6. $3.5 \times 1 = 1$

7. $(3 \times 5) \times 4 = 3 \times (5 \times 4)$

8. $(7 \times 2) + 6 = 7 \times (2 + 6)$

9. $0 \times a = a$

Solve each equation. Use either mental math or the strategy *Guess, Check, and Revise*.

10. $8b = 72$

11. $n + 14 = 45$

12. $h - 3.6 = 8$

13. $w \div 12 = 3$

14. $53 = z - 19$

15. $86 = 29 + y$

16. The winners of a slam dunk basketball competition receive T-shirts. The coach spends \$50.40 on shirts for the entire team. Each T-shirt costs \$4.20. Solve the equation $(4.20)n = 50.40$ to find the number of team members.

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Practice 3-6

Solving Subtraction Equations

Solve each equation. Then check the solution. Remember, you can draw a diagram to help you solve an equation.

1. $x - 10 = 89$

2. $14 = y - 15$

3. $12.3 = b - 7$

4. $n - 2.7 = 8.3$

Write and solve an equation. Then check each solution.

5. The owner of a used music store bought a compact disc for \$4.70. When she sold it, her profit was \$4.75. What was the selling price?

6. Yesterday, Stephanie spent \$38.72 on new shoes and \$23.19 on computer software. When she was finished, she had \$31.18. How much money did she have before she went shopping?

Solve each equation. Then check the solution.

7. $x - 7 = 77$

8. $3.1 = r - 7.5$

9. $k - 5.13 = 2.9$

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Practice 3-7

Solving Multiplication and Division Equations

State whether the number given is a solution to the equation.

1. $8c = 80; c = 10$

2. $b \div 7 = 8; b = 56$

3. $9m = 108; m = 12$

4. $y \div 9 = 17; y = 163$

5. $9r = 72; r = 7$

6. $14b = 56; b = 4$

7. $48 = y \div 4; y = 12$

8. $32 = y \div 8; y = 256$

9. $17a = 41; a = 3$

Solve each equation. Then check each solution.

10. $905 = 5a$

11. $6v = 792$

12. $12 = y \div 12$

13. $80 = 16b$

14. $19m = 266$

15. $d \div 1,000 = 10$

16. $672 = 21f$

17. $z \div 27 = 63$

18. $43h = 817$

Write and solve an equation for each situation.

Then check the solution.

19. Lea drove 420 miles and used 20 gallons of gas. How many miles per gallon did her car get?

20. Ty spent \$15 on folders that cost \$3 each. How many folders did he buy?

21. Julia wants to buy copies of a book to give as presents. How many books can she buy if they are on sale for \$12 each, and she has \$100 to spend?
