# Introduction to Algebra

**LESSON 4**

## Practice B: Equations and Their Solutions

**Determine whether the given value of the variable is a solution.**

1. $9 + x = 21$ for $x = 11$

2. $n - 12 = 5$ for $n = 17$

3. $25 \cdot r = 75$ for $r = 3$

4. $72 \div q = 8$ for $q = 9$

5. $28 + c = 43$ for $c = 15$

6. $u \div 11 = 10$ for $u = 111$

7. $\dfrac{k}{8} = 4$ for $k = 24$

8. $16x = 48$ for $x = 3$

9. $73 - f = 29$ for $f = 54$

10. $67 - j = 25$ for $j = 42$

11. $39 \div v = 13$ for $v = 3$

12. $88 + d = 100$ for $d = 2$

13. $14p = 20$ for $p = 5$

14. $6w = 30$ for $w = 5$

15. $7 + x = 70$ for $x = 10$

16. $6 \cdot n = 174$ for $n = 29$

**Replace each ☐ with a number that makes the equation correct.**

17. $5 + 1 = 2 + ☐$

18. $10 - ☐ = 12 - 7$

19. $☐ \cdot 3 = 2 \cdot 9$

20. $28 \div 4 = 14 \div ☐$

21. $☐ + 8 = 6 + 3$

22. $12 \cdot 0 = ☐ \cdot 15$

23. Carla had $15. After she bought lunch, she had $8 left. Write an equation using the variable $x$ to model this situation. What does your variable represent?

24. Seventy-two people signed up for the soccer league. After the players were evenly divided into teams, there were 6 teams in the league. Write an equation to model this situation using the variable $x$.

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