2-4 Skills Practice

Solving Multi-Step Equations

Solve each problem by working backward.

1. A number is divided by 2, and then the quotient is added to 8. The result is 33. Find the number.

2. Two is subtracted from a number, and then the difference is divided by 3. The result is 30. Find the number.

3. A number is multiplied by 2, and then the product is added to 9. The result is 49. What is the number?

4. **ALLOWANCE** After Ricardo received his allowance for the week, he went to the mall with some friends. He spent half of his allowance on a new paperback book. Then he bought himself a snack for $1.25. When he arrived home, he had $5.00 left. How much was his allowance?

Solve each equation. Then check your solution.

5. $5x + 3 = 23$

6. $4 = 3a - 14$

7. $2y + 5 = 19$

8. $6 + 5c = -29$

9. $8 - 5w = -37$

10. $18 - 4v = 42$

11. $\frac{n}{3} - 8 = -2$

12. $5 + \frac{x}{4} = 1$

13. $-\frac{h}{3} - 4 = 13$

14. $-\frac{d}{6} + 12 = -7$

15. $\frac{a}{5} - 2 = 9$

16. $\frac{w}{7} + 3 = -1$

17. $\frac{3}{4}q - 7 = 8$

18. $\frac{2}{3}g + 6 = -12$

19. $\frac{5}{2}z - 8 = -3$

20. $\frac{4}{5}m + 2 = 6$

21. $\frac{c - 5}{4} = 3$

22. $\frac{b + 1}{3} = 2$

Write an equation and solve each problem.

23. Twice a number plus four equals 6. What is the number?

24. Sixteen is seven plus three times a number. Find the number.

25. Find two consecutive integers whose sum is 35.

26. Find three consecutive integers whose sum is 36.

Lesson 2-4