

Practice 3-2

Solving Multi-Step Equations

Solve each equation. Check your answer.

1. $2n + 3n + 7 = -41$

2. $3h - 5h + 11 = 17$

3. $2t + 8 - t = -3$

4. $6a - 2a = -36$

5. $3c - 8c + 7 = -18$

6. $7g + 14 - 5g = -8$

7. $2b - 6 + 3b = 14$

8. $2(a - 4) + 15 = 13$

9. $7 + 2(a - 3) = -9$

10. $13 + 2(5c - 2) = 29$

11. $5(3x + 12) = -15$

12. $4(2a + 2) - 17 = 15$

13. $2(m + 1) = 16$

14. $-4x + 3(2x - 5) = 31$

15. $3(t - 12) = 27$

16. $-w + 4(w + 3) = -12$

17. $2(3a + 2) = -8$

18. $5(b + 4) - 6b = -24$

Write an equation to model each situation. Then solve.

19. The attendance at a baseball game was 400 people. Student tickets cost \$2 and adult tickets cost \$3. Total ticket sales were \$1050. How many tickets of each type were sold?

20. The perimeter of a pool table is 30 ft. The table is twice as long as it is wide. What is the length of the pool table?

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