NAME _____   **DATE** _____

Module 3   Solving Linear Equations
                of One Variable
Lesson 4   Solving Two-Step Linear Equations

*independent
practice*

Solve and check.

1. $17P + 8 = 110$ _____

2. $4f + 4 = 224$ _____

3. $3R + 5 = -139$ _____

4. $21w - 3 = 102$ _____

5. $-32A - 8 = -136$ _____

6. $11Q - 3 = 118$ _____

7. $T \div 6 + 4 = 24$ _____

8. $\frac{K}{4} + 7 = 27$ _____

9. $\frac{V}{7} + 2 = -1$ _____

10. $Y \div 4 - 4.5 = 7$ _____

11. $\frac{x}{5} - 7 = 13$ _____

12. $\frac{W}{3} - 8 = 14$ _____

13. $5(H + 8) = 80$ _____

14. $-8(3 + m) = -64$ _____

15. $-6(d - 3) = -36$ _____

16. $14(T - 4) = 112$ _____

17. $\frac{N - 5}{3} = 2$ _____

18. $\frac{B - 4}{4} = 5\frac{3}{4}$ _____

19. $\frac{X + 7}{4} = 7$ _____

20. $\frac{P + 18}{2} = 18.5$ _____

Journal

1. Explain how you work backwards to solve a two-step equation.
2. What would happen if you were to solve the equation $3x - 5 = 19$ by doing
      division first?
3. Describe the steps you would use to solve the equation, $\frac{m}{2} - 3 = 6$.
4. What properties allow you to solve the equation $\frac{z}{2} - 9 = 4$?
5. Design a problem that could be solved in two steps.

Cumulative Review

Solve the following equations. Check your answers.

1. $\frac{9r}{4} + 5 = 8$ _____

2. $6y + 9 = 23$ _____

3. $\frac{b}{8} + 23 = -9$ _____

4. $39m - 33 = 5$ _____

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True or false, *x* = 5 is a solution to the following equations.

5. $3x + 7 = 22$ _____

6. $2x - 19 = 11$ _____

7. $\frac{x}{10} + \frac{7}{2} = 4$ _____

8. $9x - 23 = 1$ _____

9. $-5x + 5 = -10$ _____

10. $\frac{x}{2} + \frac{4}{3} = 3\frac{5}{6}$ _____

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