LESSON 8-2

Solving Two-Step Equations

Practice and Problem Solving: D

Tell how to solve each two-step equation. Then solve it. The first one is done for you.

1. $5x + 3 = 33$

   Subtract 3 from both sides; 5x = 30. Then divide both sides by 5; x = 6.

2. $8y - 1 = 31$

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3. $\frac{1}{2}z + 5 = 11$

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4. $15 - 4t = 3$

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5. $\frac{1}{3}(q + 3) = 5$

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Solve. Check each answer.

6. $2m + 7 = 9$ 7. $3p - 5 = 19$

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Write an equation to represent the problem. Then solve the problem. The first one is done for you.

8. When 3 is subtracted from two times a number, the result is 17. What is the number?

   __**2n − 3 = 17; n = 10**__

9. The sum of half a number and 5 is 9. What is the number?

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10. The sum of 15 and two times a number is 29. What is the number?

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