1.2 Practice A

Solve the equation. Check your solution.

1. $8y - 7 = 9$

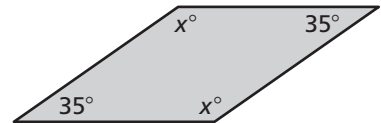**2.** $14 - 3m = -1$

3. $30 + 2k + 5k = 100$

4. $z + (z - 6) - 2 = -10$

5. $3.2x - 1.7x + 5.5 = 10$

6. $\dfrac{3}{4}x - \dfrac{1}{4}x + 14 = 3$

7. The cost C (in dollars) of making n feet of cabinet is represented by $C = 18n + 45$. How many feet of cabinet are made when the cost is \$441?

8. The sum of the measures of the interior angles of the parallelogram is $360°$. Write and solve an equation to find the value of the variable.

9. At the movies, you order 3 boxes of popcorn and a bottle of water. The cost of the bottle of water is \$1.75. Your total cost is \$9.25. Write and solve an equation to find the cost of one box of popcorn.

10. You and your friend each purchase an equal number n of magazines. Your magazines cost \$1.50 each and your friend's magazines cost \$2 each. The total cost for you and your friend is \$10.50. Write and solve an equation to find the number of magazines you purchased.

11. A rope 25 feet long is cut into 3 pieces. The first piece is $2x$ feet long, the second piece is $5x$ feet long, and the third piece is 4 feet long.

   a. Write and solve an equation to find x.

   b. Find the lengths of the first and second pieces.

12. The average of your 3 quiz grades is 17 points. Two of your quiz grades are 14 points and 19 points. Write and solve an equation to find the third quiz grade.

13. You had \$26 in your pocket. You purchased x pens at \$3.50 each. You now have \$8.50 in your pocket. Write and solve an equation to find the number of pens purchased.