

## Lesson

## 1.2

## Extra Practice

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.  $\frac{3}{4}x - \frac{1}{4}x + 14 = 3$
  7.  $3(a - 2) = 36$
  8.  $2(8 + p) = 22$
  9.  $3(2x + 1) + x = -39$
  10.  $m + 4(2m - 3) = -3$
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 score of your third quiz.
13. 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?
14. At the movies, you order 3 boxes of popcorn and a bottle of water. The cost of a 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.
15. 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.
16. The sum of the measures of the interior angles of the parallelogram is  $360^\circ$ . Write and solve an equation to find the value of each of the unknown angles.
17. 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.

