

Lesson 4 Homework Practice

Solve Equations with Variables on Each Side

Solve each equation. Check your solution.

1. $9m + 14 = 2m$

2. $13x = 32 + 5x$

3. $8d - 25 = 3d$

4. $t - 27 = 4t$

5. $7p - 5 = 6p + 8$

6. $11z - 5 = 9z + 7$

7. $12 - 5h = h + 6$

8. $4 - 7f = f - 12$

9. $-6y + 17 = 3y - 10$

10. $3x - 32 = -7x + 28$

11. $3.2a - 16 = 4a$

12. $16.8 - v = 6v$

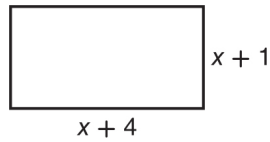
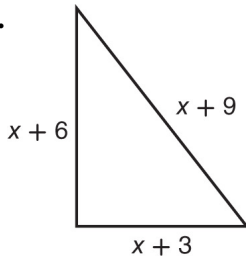
Define a variable, write an equation, and solve to find each number.

13. Fourteen less than five times a number is three times the number.

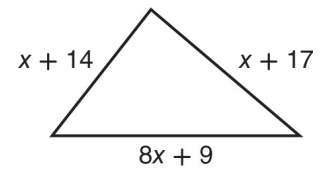
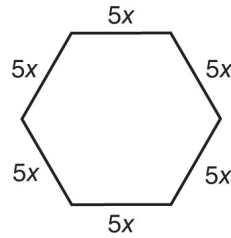
14. Twelve more than seven times a number equals the number less six.

Write an equation to find the value of x so that each pair of polygons has the same perimeter. Then solve.

15.



16.



Write and solve an equation to solve each exercise.

17. **GOLF** For an annual membership fee of \$500, Mr. Bailey can join a country club that would allow him to play a round of golf for \$35. Without the membership, the country club charges \$55 for each round of golf. How many rounds of golf would Mr. Bailey have to play for the cost to be the same with and without a membership?

18. **MUSIC** Marc has 45 CDs in his collection, and Corinna has 61. If Marc buys 4 new CDs each month and Corinna buys 2 new CDs each month, after how many months will Marc and Corinna have the same number of CDs?