

Why Do Girls Like Guys Who Wear Shirts With Eight Buttons?

Solve each equation below and find your solution at the bottom of the page.
Write the letter of that equation above the solution.

(E) $4(5n - 7) = 10n + 2$

(N) $9(x + 3) = 4x - 3$

(A) $2(12 - 8x) = x - 11x$

(H) $3f + 8(2f - 6) = 2 + 14f$

(E) $2v + 18 = 16 - 4(v + 7)$

(I) $4x - (9 - 3x) = 8x - 1$

(T) $12(3 + y) = 5(2y + 8)$

(A) $-7(1 - 4m) = 13(2m - 3)$

(Y) $9(11 - k) = 3(3k - 9)$

(S) $4x + 5(7x - 3) = 9(x - 5)$

(T) $2(6d + 3) = 18 - 3(16 - 3d)$

(F) $8(4u - 1) - 12u = 11(2u - 6)$

(C) $-5 - (15y - 1) = 2(7y - 16) - y$



2	10	3	7	9	29	4	-1	1	-8	-6	-16	-12	-5

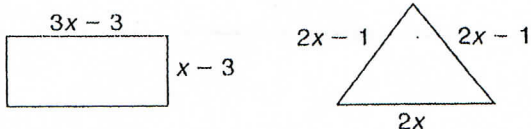
LESSON
1-5

Problem Solving

Solving Equations with Variables on Both Sides

Write the correct answer.

1. Claire purchased just enough fencing to border either a rectangular or triangular garden, as shown, whose perimeters are the same.



How many feet of fencing did she buy?

3. A moving company charges \$800 plus \$16 per hour. Another moving company charges \$720 plus \$21 per hour. How long is a job that costs the same no matter which company is used?

2. Celia and Ryan are starting a nutrition program. Celia currently consumes 1200 calories a day and will increase that number by 100 calories each day. Ryan currently consumes 3230 calories a day and will decrease that number by 190 each day. They will continue this pattern until they are both consuming the same number of calories per day. In how many days will that be?

4. Aaron needs to take out a loan to purchase a motorcycle. At one bank, he would pay \$2500 initially and \$150 each month for the loan. At another bank, he would pay \$3000 initially and \$125 each month. After how many months will the two loan payments be the same?

Use the table below to answer questions 5–7. Select the best answer. The table shows the membership fees of three different gyms.

5. After how many months will the fees for Workout Now and Community Gym be the same?

A 2.5 C 25
B 15 D 30

6. Sal joined Workout Now for the number of months found in problem 5. How much did he pay?

F \$695 H \$1325
G \$875 J \$1550

7. After how many months will the fees for Workout Now and Ultra Sports Club be the same?

A 7 C 12
B 10 D 15

Gym	Fees
Workout Now	\$200 plus \$45 per month
Community Gym	\$50 plus \$55 per month
Ultra Sports Club	\$20 plus \$60 per month