

A. Solve each equation. Show checks for 3 of your solutions.

1) $3x + 4 = 16$

2) $5(x - 4) = 7x - 6$

3) $x - 5/6 = 8/11$

4) $x + 3 = 15 - 3x$

5) $7(x - 7) = 49 - x$

6) $2x - 11 = 7x + 34$

B. Solve for c.

7) $5x + 3c = 12$

8) $10x - 2c - 47 = 0$

9) $5c + 7x = 35$

10) $5q - 2c = 16c$

C. Use the Distributive Property to write each expression in a different form, either by multiplying or factoring.

11) $6x - 10$

12) $3y(y^2 + y)$

13) $5x(6x - 10)$

14) $(5x)(2) + (5x)(y)$

D. Make a Guess and Check table and write an appropriate equation to solve each problem. State the solution in a complete sentence. *Solve your equation.*

1. The sum of three consecutive even numbers is 114. What are the three numbers?

2. Darren has sold 75 tickets worth \$462.50 for the school play. He charged \$7.50 for adults and \$3.50 for students. How many of each kind of ticket did he sell?

3. One number is eight less than another. The product of the two numbers is 345. What are the numbers? *Write an equation only. (Do not solve)*

4. A rectangle has an area of 152 square inches. One side is three more than twice the other. What are the dimensions of this rectangle?

5. A 15-foot rope is cut into three pieces. The length of one piece is twice the second. The third is 5 feet shorter than the longest. How long is each piece?