Holiday Extra Credit #1 Describe a Multi-Step Equation Solution Using our Lyrics!

DUE: 0755hrs, 05 January 2016

Any submission time-stamped after the due date I will not grade.

Task: Describe each step of the correct solution to a multi-step linear equation using our lyrics!

Grading: All or nothing! No partial credit! It must be correct completely to earn the points.

Background:

When we solve a multi-step linear equation such as: 3-2(x+1)=4x-2(5-x) we do the following:

- a. multiply (Distributive property)
- b. Combine like terms
- c. Eliminate variable terms from one side
- d. Isolate the unknown term (Addition Property of Equality)
- e. solve for the unknown (Multiplication Property of Equality)

You are going to use your lyrics to describe each step, for example:

$$\frac{3}{4}x - 5 = 13$$

"to what you want some stuff you add, both sides add its opposite."

$$\frac{3}{4}x - 5 + 5 = 13 + 5$$

"oops, dont' cry, simplify!

Equality properties never quit!"

$$\frac{3}{4}x = 18$$

"If what you want's been multiplied, flip that factor and times both sides."

$$\frac{4}{3} \cdot \frac{3}{4} x = 18 \cdot \frac{4}{3}$$

"oops, don't cry, simplify!"

$$x = 24$$

"What you want's now all alone, and what it is, now you know!"

Here's your equation to describe and solve; show your work like the above example. Your solution should have *no less than 7 but no more than 10 steps!*

$$2x-3(x-5)+7x=8+6(4-x)+2$$

BONUS: Check your solution and describe using our lyrics!

Not good luck, but good SKILLS!