Name _____ Date _____

Simplifying Linear Expressions - Matching Worksheet

Match the word problems to their answers. Write the letter of the answer that matches the problem.

_____ 1. Write an equivalent expression for $5(x + 8) - 10$

a. $2(x+1)$

_____ 2. Write an equivalent expression for $2(x + 6) - 8$

b. No

_____ 3. Write equivalent expressions for $2x - 2 + 4$

c. $3(x+3)$

_____ 4. Write equivalent expressions for $3a + 15$

d. $5(2x+1)$

_____ 5. Rosy says the two expressions $8(10a - 4) + 5a$ and $5a - 12$ are equivalent? Is she correct?

e. $5(x+6)$

_____ 6. Sam says the two expressions $4(6a - 4) + 8a$ and $16(2a-1)$ are equivalent? Is she correct?

f. $3(a + 5)$

_____ 7. An equilateral triangle has a perimeter of $9x + 27$. What is the length of each side of the triangle?

g. $2(x+2)$

_____ 8. An equilateral triangle has a perimeter of $30x + 15$. What is the length of each side of the triangle?

h. Yes

_____ 9. A rectangle is four times as long as its width. One way to write an expression to find the perimeter would be $4t + 4t + t + t$. Write the expression in another way.

i. $10t$