Name: _____

Solve the following problems **without a calculator**. You *MUST* show your work. ***NO WORK = NO CREDIT.***

1. Identify the like terms, coefficients, and constants in the following expression. 9x - 3y + 4 - 4y	2. The formula for the perimeter of a rectangle is P = 2l + 2w, where l represents the length and w represents the width. What is the perimeter of a rectangle that has a length of 12 centimeters and a width of 5 centimeters?
3. Simplify the expression. (9a + 6b - c) - (-8a - 4b + c)	4. Write a word phrase for the following: 12 - (4.5 / 2)

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1. Write an algebraic expression to the given word problem: n less than twice 15	2. -3r + 8s, when r = -6 and s = 4
3. -7(2 + 5x) + 5(x - 5). Simplify.	4. In this formula, c represents the total charge for babysitting and h represents the number of hours the child is kept. How much should Hector pay if his child is at the babysitting service for 10 hours? c = $3.50 + $5.75h

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1. A telephone company charges $0.12 per minute for local calls and $0.25 per minute for long distance calls. Write an expression that gives the total costs in dollars for m minutes of local calls and n minutes of long distance calls.	2. -⅖ (3x + 25) =
3. Simplify: 0.8(3x - 7) + 5(.25 - 4)	4. Bobby scored n points in the first basketball game of the season. The expression below represents the total number of points that Bobby scored in the first three basketball games of the season. (n) + (3n) + (8n - 2) Write an expression that is equivalent to the total number of points Bobby scored in the first three games.

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1. Molly is going to pay for an item using gift cards. The clerk tells her that she will need 2 gift cards and an additional $12 to pay for the item. Write an algebraic expression to model the situation using the variable G for the number of gift cards to pay for her total bill.	2. Simplify: 5(½ - 4n) - 9(2n + ¼)
3. Use distributive property to solve: (13 - 6n)10	4. Simplify 6k - 5k + 8 when k = -15