

Clues: Remember how the FNLN principle applies to adding things that *already* have the same Last Name: that $6 \text{ dogs} + 5x + 4 \text{ dogs} + 3x = 10 \text{ dogs} + 8x$. We look to combine things that *already* have the same LN!

- Lay down pieces for each part of the problem only for #1 thru #4 . Then combine the pieces by addition.
- Write symbols for the sum for all problems . You have to write the x^2 and x 's for some problems.
- Note well: the custom is to write sums with the x^2 's first, then the x 's, then the ones.
- **IMPORTANT:** You *won't* be building rectangles here - this is algebra addition, not algebra factoring.

Ex.A. $\begin{array}{r} 2x^2 + 5x + 6 \\ + 3x^2 + 7x + 9 \\ \hline 5x^2 + 12x + 15 \end{array}$	Ex.B. $(4x^2 + 2x + 3) + (7x + 7 + 2x^2) = \underline{6x^2 + 9x + 10}$
1.) $\begin{array}{r} 3x^2 + 2x + 4 \\ + 5x^2 + 6x + 4 \\ \hline \underline{\quad x^2 + \quad x + \quad} \end{array}$ Built Right? Yes No Written Right? Yes No	2.) $(2x^2 + 6 + 5x) + (3x + 4x^2 + 6) = \underline{\quad x^2 + \quad x + \quad}$ Built Right? Yes No Written Right? Yes No
3.) $\begin{array}{r} 4x^2 + 3x + 6 \\ + 2x^2 + 5x + 6 \\ \hline \underline{\quad x^2 + \quad x + \quad} \end{array}$ Built Right? Yes No Written Right? Yes No	4.) $(7 + 5x^2 + 4x) + (2x^2 + 9 + 4x) = \underline{\quad x^2 + \quad x + \quad}$ Built Right? Yes No Written Right? Yes No
5.) $\begin{array}{r} 6x^2 + 7x + 8 \\ + 8x^2 + 7x + 6 \\ \hline \underline{\quad \quad \quad} \end{array}$ Written Right? Yes No	6.) $(3x^2 + 6 + 9x) + (4x + 7 + 8x^2) = \underline{\quad} + \underline{\quad} + \underline{\quad}$ Written Right? Yes No
7.) $\begin{array}{r} 8x^2 + 6x + 2 \\ + 4x^2 + 0x + 6 \\ \hline \underline{\quad x^2 + \quad x + \quad} \end{array}$ Written Right? Yes No	8.) $(5x + 3 + 1x^2) + (2 + 5x^2 + 3x) = \underline{\quad} + \underline{\quad} + \underline{\quad}$ Written Right? Yes No
9.) $\begin{array}{r} 7x^2 + 21x + 14 \\ + 14x^2 + 7x + 21 \\ \hline \underline{\quad \quad \quad} \end{array}$ Written Right? Yes No	10.) $(6x + 7 + 5x^2) + (9 + 8x + 7x^2) = \underline{\quad x^2} + \underline{\quad x} + \underline{\quad}$ Written Right? Yes No
11.) $\begin{array}{r} 8x^2 + 15x + 32 \\ + 6x^2 + 17x + 13 \\ \hline \underline{\quad x^2 + \quad x + \quad} \end{array}$ Written Right? Yes No	12.) $(5x + 6 + 8x^2) + (8 + 3x + 8x^2) = \underline{\quad \quad \quad}$ Written Right? Yes No
13.) $\begin{array}{r} 32x^2 + 50x + 81 \\ + 21x^2 + 40x + 16 \\ \hline \underline{\quad x^2 + \quad x + \quad} \end{array}$ Written Right? Yes No	14.) $(14x^2 + 20x + 33) + (10x^2 + 40x + 15) = \underline{\quad \quad \quad}$ Written Right? Yes No