

34.044 More Factoring with $2x^2$ and $3x^2$ Name _____

Clues: Get out pieces for each problem listed below, then build a rectangle and record the (over)(up) amounts. *You will need to write the plus sign (+) in some places.* You may take more than one session to complete this worksheet.

	Built Right?	Written Right?
1.) $2x^2 + 9x + 9 = (\underline{\quad} + \underline{\quad})(\underline{\quad} + \underline{\quad})$ <div style="text-align: center;"> $\xrightarrow{\quad}$ \uparrow </div>	Yes No	Yes No
2.) $2x^2 + 7x + 3 = (\underline{\quad} \underline{\quad})(\underline{\quad} + \underline{\quad})$ <div style="text-align: center;"> $\xrightarrow{\quad}$ \uparrow </div>	Yes No	Yes No
3.) $3x^2 + 10x + 3 = (\underline{\quad} + \underline{\quad})(\underline{\quad} \underline{\quad})$ <div style="text-align: center;"> $\xrightarrow{\quad}$ \uparrow </div>	Yes No	Yes No
4.) $3x^2 + 11x + 6 = (\underline{\quad} \underline{\quad})(\underline{\quad} + \underline{\quad})$ <div style="text-align: center;"> $\xrightarrow{\quad}$ \uparrow </div>	Yes No	Yes No
5.) $2x^2 + 9x + 4 = (\underline{\quad} \underline{\quad})(\underline{\quad} \underline{\quad})$ <div style="text-align: center;"> $\xrightarrow{\quad}$ \uparrow </div>	Yes No	Yes No
6.) $2x^2 + 9x + 10 = (\underline{\quad} \underline{\quad})(\underline{\quad} \underline{\quad})$ <div style="text-align: center;"> $\xrightarrow{\quad}$ \uparrow </div>	Yes No	Yes No
7.) $3x^2 + 10x + 8 = (\underline{\quad} \underline{\quad})(\underline{\quad} \underline{\quad})$ <div style="text-align: center;"> $\xrightarrow{\quad}$ \uparrow </div>	Yes No	Yes No
8.) $3x^2 + 8x + 4 = (\underline{\quad} \underline{\quad})(\underline{\quad} \underline{\quad})$ <div style="text-align: center;"> $\xrightarrow{\quad}$ \uparrow </div>	Yes No	Yes No
9.) $3x^2 + 11x + 10 = (\underline{\quad} \underline{\quad})(\underline{\quad} \underline{\quad})$ <div style="text-align: center;"> $\xrightarrow{\quad}$ \uparrow </div>	Yes No	Yes No
10.) $3x^2 + 13x + 4 = (\underline{\quad} \underline{\quad})(\underline{\quad} \underline{\quad})$ <div style="text-align: center;"> $\xrightarrow{\quad}$ \uparrow </div>	Yes No	Yes No
11.) $2x^2 + 11x + 15 = (\underline{\quad} \underline{\quad})(\underline{\quad} \underline{\quad})$ <div style="text-align: center;"> $\xrightarrow{\quad}$ \uparrow </div>	Yes No	Yes No
12.) $2x^2 + 7x + 6 = (\underline{\quad} \underline{\quad})(\underline{\quad} \underline{\quad})$ <div style="text-align: center;"> $\xrightarrow{\quad}$ \uparrow </div>	Yes No	Yes No