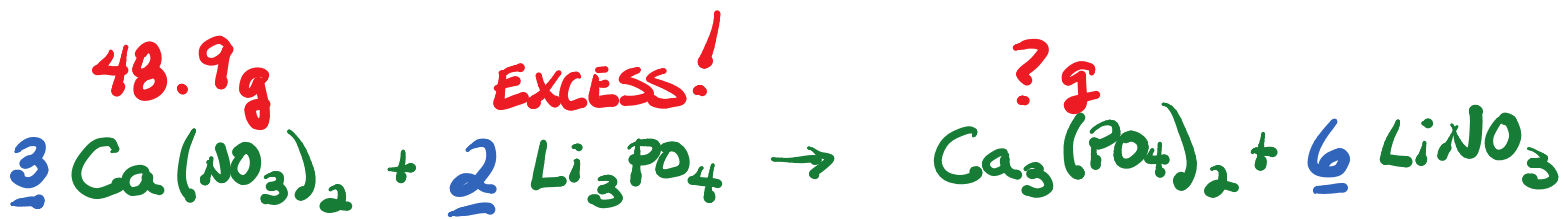


4e.) 48.9 grams of calcium nitrate reacts with excess lithium phosphate in a double replacement reaction. What mass, in grams, of the precipitate calcium phosphate is produced? Lithium nitrate is also produced in this reaction.



$$48.9\text{g Ca}(\text{NO}_3)_2 / 164.1\text{g} / 1\text{mol Ca}_3(\text{PO}_4)_2 / 310.18\text{g} / 3\text{mol Ca}(\text{NO}_3)_2 / 1\text{mol Ca}_3(\text{PO}_4)_2 = 30.8\text{g Ca}_3(\text{PO}_4)_2$$