$\qquad$ Date $\qquad$
Warm-Up: Molecular Formulas
All work must be shown using correct units and sig figs!
A compound is composed of $71.02 \%$ silver, $7.91 \%$ carbon, and $21.07 \%$ oxygen. If the molar mass of the compound is 303.8 grams, what is its molecular formula?

Steps

1. Calculate the number of moles of each element.
2. Determine the whole-number mole ratios.
3. Write the empirical formula for this compound: $\qquad$
4. Determine the molar mass for the empirical formula.
5. Calculate the integer n (the number which the empirical formula will need to be multiplied by).
6. Determine the molecular formula for this compound.
7. Name this compound:
