Do each problem in a single dimensional analysis problem.

- 1) How many molecules of water are in a standard water bottle (500mL)? Remember the density of water is a conversion factor (1mL=1g). Use your known (500mL), the density, molar mass, and Avogadro's number to do this problem.
- Which has more molecules: one teaspoon of salt (NaCl 6 grams) or one teaspoon of sugar ($C_{12}H_{22}O_{11} 4.5$ grams)
- 3) How many atoms are in one teaspoon of salt (atoms, not molecules!)? One teaspoon of salt weighs 6 grams.
- 4) One can of regular Coca Cola has 39 grams of sugar (C₁₂H₂₂O₁₁). How many molecules of sugar are you drinking?

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