a cylinder of bottled gas contains 47 kg of propane, C3H8. how manyvpropane molecules does it contain

$$v(C3H8) = \frac{47 * 10^3}{44} = 1.07 * 10^3 \, mol$$
$$N = 1.07 * 10^3 * 6.02 * 10^{23} = 6.4414 * 10^{26}$$