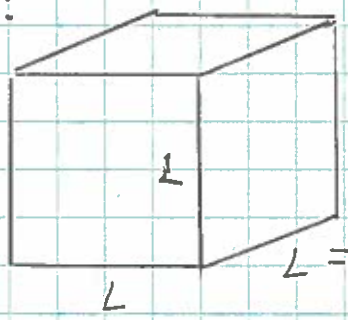
Copper Cube:



$L = 2\,cm = 0.02\,m$

For copper, $\rho = 8920\ kg/m^3$, $A = 64$

$M_{mol} = 0.064\ kg/mole$

So:

$$M = \rho V = \rho L^3 = 7.136 \times 10^{-2}\ kg$$

and

$$n = \frac{M}{M_{mol}} = 1.115\ mol$$