

Question #85353, Chemistry / General Chemistry | for completion

how many atoms in 308 g of copper metal?

Solution:

$$n(\text{Cu}) = \frac{308\text{g}}{63.546\text{g/mol}} = 4.8468 \text{ moles}$$

$$N = n \cdot N_A = 6.02 \cdot 10^{23} \cdot 4.8468 \text{ mol} = 2.917 \cdot 10^{24} \text{ atoms}$$

Answer: $2.917 \cdot 10^{24}$ atoms

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