

Atomic Mass, Number of Atoms, and the Mole

1. What is the atomic mass and the molar mass of iron, Fe? Use the correct units for each.
2. How many atoms are in 65.34 g of silicon, Si?
3. A 1.55 g sample of element X has 1.28×10^{22} atoms. What is the identity of element X?
4. How many grams are in 2.65 moles of nitrogen?
5. How many moles are in 23.26 g of sodium? How many sodium atoms is this?