Moles 1

Carry out the following conversions.
(Note: Density is listed on the Sargent-Welch Periodic Table)

1)  8.92 moles CO\textsubscript{2} \rightarrow molecules

2)  58.5 g silver metal \rightarrow moles

3)  1.45 \times 10^{25} \text{ atoms Al} \rightarrow \text{ kg Al}

4)  100.0 \text{ cm}^3 \text{ Fe} \rightarrow \text{ mol Fe}

5)  32.7 g selenium \rightarrow \text{ mol}
6) \(3.4 \times 10^{22} \text{Na}^+\) ions \(\rightarrow\) mol

7) 87.5 mol hydrogen gas (H₂) \(\rightarrow\) g H₂

8) 25.5 mg CaCl₂ \(\rightarrow\) formula units

9) \(8.91 \times 10^{24}\) atoms zirconium \(\rightarrow\) cm³

10) 552 pg Pt(NO₃)₂ \(\rightarrow\) formula units