

Answer on Question #59254 – Chemistry – General Chemistry

sodium chloride decomposes into elemental sodium and elemental chlorine will be produced if 39.4 of sodium chloride decomposes



Molar mass of NaCl is 58.5 g, number of moles is $\frac{39.4}{58.5} = 0.673$ moles. Number of moles for Na is 0.673, for Cl₂ – 0,337. Mass of Cl₂ is $0.337 \times 71 = 23.9$ g, mass of Na is $39.4 - 23.9 = 15.5$ g.

Answer: Mass of Cl₂ - 23.9 g, mass of Na - 15.5 g.