How many grams of calcium oxide (CaO) would be needed to neutralise 0.5 litre of battery acid (H2SO4) with a concentration of 0.25mol/L? Given the atomic masses: Ca = 40 and O = 16 Solution: 1.CaO+H2SO4=CaSO4+H2O2.C=n/V; $n=C\timesV;$ $n(H2SO4)=0.25\times0.5=0.125$ mol. 3.n(H2SO4)=n(CaO) $4.m=n\times M$ M(CaO)=40+16=56 gram/mol $m(CaO)=0.125\times56=7$ grams Answer:m(CaO)=7 grams.

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