Hydrochloric acid reacts with calcium carbonate to produce salt, water and carbon dioxide.

 $2HCl + CaCO_3 \rightarrow CaCl_2 + CO_2 + H_2O$ 

What is the maximum mass of calcium chloride formed when 10g of calcium carbonate reacts with excess acid? (Ar C = 12; Ar O = 16; Ar Cl = 35.5; Ar Ca = 40)