This is the equation for the reaction of nitric acid with calcium carbonate:

 $CaCO_3 + 2HNO_3 \rightarrow Ca(NO_3)_2 + H_2O + CO_2$ What mass of carbon dioxide is formed when 20g of calcium carbonate reacts with nitric acid? (Relative atomic masses: (C = 12, O = 16; Ca = 40; H = 1; N = 14)