Sodium carbonate (Na₂CO₃), can be made in the reaction below $CaCO_3 + 2NaCl \rightarrow Na_2CO_3 + CaCl_2$

(Formula masses: $CaCO_3 = 100$ 2 NaCl = 117 Na₂CO₃ = 106 CaCl₂ = 111) Use the equation below to calculate the atom economy for the production of sodium carbonate. Atom economy = $\frac{mass\ of\ required\ product}{mass\ of\ products}$ ×100% total mass of products