Sodium carbonate (Na₂CO₃), can be made in the reaction below: CaCO₃ + 2NaCl \rightarrow Na₂CO₃ + CaCl₂ (Formula masses: CaCO₃ = 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 = (mass of required product/total mass of product) x 100%