A large container, with a square base and that is open at the top, must be made from sheet metal. The volume of the container must be $108m^3$.
Let the length of the sides of the base be x meter.

a) Determine a formula for the outer-surface area (M) of the container, in other words the area of the sheet metal that will be used

b) Determine the dimensions of the container so that the minimum amount of sheet metal can be used, for the given volume