The Fresha Drink Company is marketing a new soft drink.

The drink will be sold in a can that holds 200 cm$^3$.

In order to keep costs low, the company wants to use the smallest amount of aluminum.

Find the radius and height of a cylindrical can which holds 200 cm$^3$ and uses the smallest amount of aluminum.

Explain your reasons and show all your calculations

________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________