20 The maximum pressure that granite rock can withstand is $2.0 \times 10^8\,\mathrm{N\,m^{-2}}$. Above this pressure, the rock begins to flow like a liquid. The density of granite is $2.7 \times 10^3\,\mathrm{kg\,m^{-3}}$.

What would be the height of a pure granite mountain whose base is just beginning to flow?

A $3.8 \times 10^3\,\mathrm{m}$ **B** $7.6 \times 10^3\,\mathrm{m}$ **C** $3.7 \times 10^4\,\mathrm{m}$ **D** $7.4 \times 10^4\,\mathrm{m}$