1. Estimate the number of baseballs required to fill up an empty classroom
2. The US national debt is about 16 trillion.
(a) Express this in scientific notations
(b) estimate (in km ) the hight of a coresponding pile of one-hundred dollar bills (c) compare the above to the hight of Mt. Everest $(\sim 10 \mathrm{~km})$, to radius of Earth $(6,400 \mathrm{~km})$, to distance to Moon ( $\sim 400,000 \mathrm{~km}$ ).
3. $2.5 \mathrm{in}^{3}$ of liquid have a mass $m=41.0 \mathrm{~g}$. Find the density in $\mathrm{kg} / \mathrm{m}^{3}$.
