Measurements and estimations

- 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 ($\sim 10 \, km$), to radius of Earth
 - $(6,400 \, km)$, to distance to Moon ($\sim 400,000 \, km$).
- 3. $2.5\,in^3$ of liquid have a mass $m=41.0\,g$. Find the density in kg/m^3 .