SOLUTIONS TO END-OF-CHAPTER PROBLEMS

Section 1.1   Standards of Length, Mass, and Time

P1.1   (a)   Modeling the Earth as a sphere, we find its volume as

$$\frac{4}{3}\pi r^3 = \frac{4}{3}\pi (6.37 \times 10^6 \text{ m})^3 = 1.08 \times 10^{21} \text{ m}^3$$

Its density is then

$$\rho = \frac{m}{V} = \frac{5.98 \times 10^{24} \text{ kg}}{1.08 \times 10^{21} \text{ m}^3} = \boxed{5.52 \times 10^3 \text{ kg/m}^3}$$

       (b)   This value is intermediate $\boxed{\text{between the tabulated densities of}}$ $\boxed{\text{aluminum and iron.}}$ Typical rocks have densities around 2000 to 3000 kg/m³. The average density of the Earth is significantly higher, so higher-density material must be down below the surface.

P1.2   (a) $\rho = m/V$ and $V = (4/3)\pi r^3 = (4/3)\pi (d/2)^3 = \pi d^3/6$, where d is the diameter.

Then $\rho = 6m / \pi d^3 = \dfrac{6(1.67 \times 10^{-27} \text{kg})}{\pi (2.4 \times 10^{-15} \text{m})^3} = \boxed{2.3 \times 10^{17} \text{ kg/m}^3}$

       (b) $\dfrac{2.3 \times 10^{17} \text{ kg/m}^3}{22.6 \times 10^3 \text{ kg/m}^3} = \boxed{1.0 \times 10^{13} \text{ times the density of osmium}}$

P1.3   For sphere the volume is $V = \dfrac{4}{3}\pi r^3$ and the mass is $m = \rho V = \rho \dfrac{4}{3}\pi r^3$.

We divide this equation for the larger sphere by the same equation for the smaller:

$$\frac{m_\ell}{m_s} = \frac{\rho (4/3)\pi r_\ell^3}{\rho (4/3)\pi r_s^3} = \frac{r_\ell^3}{r_s^3} = 5$$

Then $r_\ell = r_s \sqrt[3]{5} = (4.50 \text{ cm})\sqrt[3]{5} = \boxed{7.69 \text{ cm}}$

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