Exercise 58

Write conversion factors (as ratios) for the number of:

(a) kilometers in 1 mile

(b) liters in 1 cubic foot

(c) grams in 1 ounce

Solution

The conversion factors are listed in Table 1.6 on page 45.

$$\text{(a)} \quad \frac{1 \text{ km}}{0.62137 \text{ mi}} \approx \boxed{\frac{1.6094 \text{ km}}{1 \text{ mi}}}$$

$$\text{(b)} \quad \frac{28.317 \text{ L}}{1 \text{ ft}^3}$$

$$\text{(c)} \quad \frac{28.349 \text{ g}}{1 \text{ oz}}$$