## Exercise 73

Gasoline is sold by the liter in many countries. How many liters are required to fill a 12.0 -gal gas tank?

## Solution

Start with 12.0 gal and use conversion factors to write the units in liters.

$$
12.0 \text { gat } \times \frac{4 \text { quarts }}{1 \text { gaI }} \times \frac{1 \mathrm{~L}}{1.0567 \text { quarts }} \approx 45.4 \mathrm{~L}
$$

