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.

$$12.0~{\rm gal} \times \frac{4~{\rm quarts}}{1~{\rm gal}} \times \frac{1~{\rm L}}{1.0567~{\rm quarts}} \approx 45.4~{\rm L}$$