

Exercise 64

A barrel of oil is exactly 42 gal. How many liters of oil are in a barrel?

Solution

Multiply by the appropriate conversion factors to change from gallons to quarts to liters.

$$42 \text{ gal} = 42 \cancel{\text{ gal}} \times \frac{4 \cancel{\text{ quarts}}}{1 \cancel{\text{ gal}}} \times \frac{1 \text{ L}}{1.0567 \cancel{\text{ quarts}}} \approx 1.6 \times 10^2 \text{ L}$$