

Exercise 63

How many milliliters of a soft drink are contained in a 12.0-oz can?

Solution

Multiply by the appropriate conversion factors to change from ounces (volume) to quarts to milliliters.

$$12.0 \text{ oz} = 12.0 \text{ oz} \times \frac{1 \text{ quart}}{32 \text{ oz}} \times \frac{1 \cancel{\text{L}}}{1.0567 \text{ quarts}} \times \frac{1000 \text{ mL}}{1 \cancel{\text{L}}} \approx 355 \text{ mL}$$