

Exercise 82

To prepare for a laboratory period, a student lab assistant needs 125 g of a compound. A bottle containing 1/4 lb is available. Did the student have enough of the compound?

Solution

Use the conversion factors on page 45 to write the needed mass in pounds.

$$125 \text{ g} = 125 \text{ g} \times \frac{1 \text{ kg}}{1000 \text{ g}} \times \frac{2.2046 \text{ lb}}{1 \text{ kg}} \approx 0.276 \text{ lb}$$

The bottle with 0.25 lb of compound is not enough.