Unit 0 Lesson III Unit Conversions with Factor-Label Method

Objective: The student will be able to use the factorlabel method and dimensional analysis to interconvert between different units.

Warm - Up Answers

1. 0.450 Liters

2. 0.45063 hg

Unit Conversions Factor Label

(given, know, need)

The average weight of an African Forest Elephant is 6250 pounds (lbs). How many tons is this?

A cooking pot contains 345 fluid ounces (fl. oz.) of water. How many cups of water is this?

A high school swimmer competes in the 100-meter backstroke event. How many centimeters does this athlete swim?

The same swimmer now competes in a different event, the 350-meter front stroke. How many inches does this athlete swim? (Hint: multi-step problem)