Unit 5, Lesson 14

Weight and Capacity Measurements

Let's solve problems about weight and about capacity.

Warm-up

Number Talk: A Lot of Thousands

Find the value of each expression mentally.

- $1{,}200 + 900$
- $12{,}500 + 9{,}000$
- $13{,}000 + 9{,}900$
- $130{,}000 + 99{,}000$

Activity 1

Milk and Mango Lassi

1. Here are 3 true statements about this jug of milk.
   - This jug contains 1 gallon of milk.
   - This jug contains 4 quarts of milk.
   - This jug contains 16 cups of milk.

   Complete each statement so that it is true:

   a. One gallon is _____ times as much as 1 quart.

   b. One gallon is _____ times as much as 1 cup.

   c. One quart is _____ times as much as 1 cup.

2. For a potluck party, Priya and 3 other relatives are bringing *mango lassi* (MAYNG-goh LAH-see).

   a. Who prepared the most mango lassi? Explain or show your reasoning.

guest	amount of lassi
Priya	10 cups
uncle	3 quarts
cousin	8 cups
grandma	2 gallons

   b. How many cups of lassi did all the guests bring?

   c. Complete this sentence: Priya's grandma made _____ times as much lassi as Priya's cousin. Show how you know.

Activity 2

Clay for Art Class

At a craft store, clay is sold in packs of different sizes: 1 pound, 24 ounces, 3 pounds, and 5 pounds.

An art teacher needs 120 ounces of clay for her class.

1. Would she have enough clay if she bought each of the following combinations? Explain or show your reasoning.

	1-pound pack	24-ounce pack	3-pound pack	5-pound pack
A	1		1	
B	1	1	1	1
C		1	2	

2. Decide if each statement is true or false. Explain or show your reasoning.

   a. A 3-pound pack weighs 2 times as much as a 24-ounce pack.

   b. If we combine a 1-pound pack, a 3-pound pack, and a 5-pound pack, we'd have 6 times as much clay as what's in a 24-ounce pack.