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.