## Lesson 14: Weight and Capacity Measurements

* Let’s solve problems about weight and capacity.

### Warm-up: Number Talk: Lots of Thousands

Find the value of each expression mentally.

* $1,​200+900$
* $12,​500+9,​000$
* $13,​000+9,​900$
* $130,​000+99,​000$

### 14.1: Milk and Mango Lassi

1. Here are three 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:
* 
	1. One gallon is \_\_\_\_\_\_\_\_\_\_ times as much as 1 quart.
	2. One gallon is \_\_\_\_\_\_\_\_\_\_ times as much as 1 cup.
	3. One quart is \_\_\_\_\_\_\_\_\_\_ times as much as 1 cup.
1. For a potluck party, Priya and three other relatives are bringing mango lassi.
* 

| * guest
 | * amount of lassi
 |
| --- | --- |
| * Priya
 | * 10 cups
 |
| * Uncle
 | * 3 quarts
 |
| * Cousin
 | * 8 cups
 |
| * Grandma
 | * 2 gallons
 |

* 1. Who prepared the most mango lassi? Explain or show your reasoning.
	2. How many cups of lassi did all the guests bring?
	3. Complete this sentence: Priya’s grandma made \_\_\_\_\_\_\_\_\_\_ times as much lassi as Priya’s cousin. Show how you know.

### 14.2: 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
 |
| --- | --- | --- | --- | --- |
| * Combo A
 | * 1
 |  | * 1
 |  |
| * Combo B
 | * 1
 | * 1
 | * 1
 | * 1
 |
| * Combo C
 |  | * 1
 | * 2
 |  |

1. Decide if each statement is true or false. Be prepared to explain or show your reasoning.
	1. A 3-pound pack weighs 2 times as much as a 24-ounce pack.
	2. 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.



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