

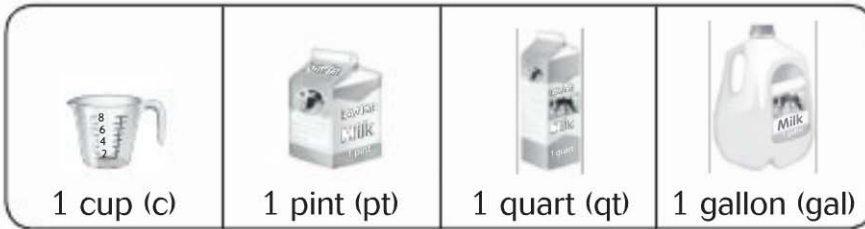
Name \_\_\_\_\_

## Estimate and Measure Liquid Volume

**Essential Question** How are cups, pints, quarts, and gallons related?

### UNLOCK the Problem

You can use customary units to measure the amount of liquid a container will hold. Some customary units are **cup (c)**, **pint (pt)**, **quart (qt)**, and **gallon (gal)**.



**Activity** Show how cups, pints, quarts, and gallons are related.

**Materials** ■ cup, pint, quart, gallon containers ■ water

**STEP 1** Estimate the number of cups it will take to fill the pint container. Record your estimate in the table.

**STEP 2** Fill a cup and pour it into the pint container. Repeat until the pint container is full. Record the number of cups it took to fill the pint container.

**STEP 3** Repeat Steps 1 and 2 for the quart and gallon containers.

Number of Cups			
	Number of Cups in a Pint	Number of Cups in a Quart	Number of Cups in a Gallon
Estimate			
Liquid Volume			

#### Math Talk

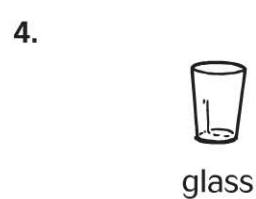
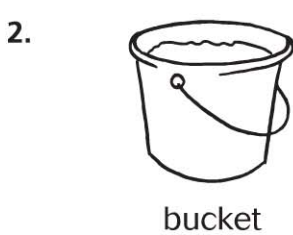
Which unit would you use to measure the amount of water needed to fill an aquarium? **Explain** your choice.

## Share and Show



Choose the unit you would use to measure the amount of liquid the container will hold. Write *cup*, *pint*, *quart*, or *gallon*.

1.  Think: A cup is small.  
\_\_\_\_\_ **cup** \_\_\_\_\_



## On Your Own

Choose the unit you would use to measure the amount of liquid the container will hold. Choose the better unit of measure.

5. a dog's water bowl: 2 cups or 2 gallons  
6. a juice box: 1 cup or 1 quart

## Problem Solving



7. Lila made 3 quarts of lemonade. How many cups of lemonade did she make?  
\_\_\_\_\_
8. Richard made 2 gallons of fruit punch for a party. How many 1-cup servings can he make?  
\_\_\_\_\_