Level B Unit 2
Measurement of Volume

*Note:* Measurement of Volume includes questions concerning length and weight from Level A, beginning with Level A, Unit 1, Lesson 3. (You may need to review Level A, Units 1, 7, and 9 before you start this unit.)
Lesson 1

a. You’re going to learn about units of volume. Those are units that refer to the amount a container can hold.

b. Here are the first facts about volume: A cup is smaller than a pint. There are 2 cups in a pint.
   • Which is larger, a cup or a pint? (Signal.) A pint.
   • How many cups are in a pint? (Signal.) 2.
   • New fact: There are two pints in a quart.
   • Which is larger, a pint or a quart? (Signal.) A quart.
   • How many pints are in a quart? (Signal.) 2.
   • That means there are 4 cups in a quart. How many cups are in a quart? (Signal.) 4.
   • How many pints are in a quart? (Signal.) 2.
   • Remember those facts.
     (Repeat step b until firm.)

c. Number your paper from 1 to 5. Get ready to write answers to these items. ✓
   • 1. Which is larger, a cup or a pint?
   • 2. Which is larger, a pint or a quart?
   • 3. How many cups are in one pint?
   • 4. How many pints are in one quart?
   • 5. How many cups are in one quart?

d. Check your work.
   • Item 1. Which is larger, a cup or a pint? (Signal.) A pint.
   • Item 2. Which is larger, a pint or a quart? (Signal.) A quart.
   • Item 3. How many cups are in one pint? (Signal.) 2.
   • Item 4. How many pints are in one quart? (Signal.) 2.
   • Item 5. How many cups are in one quart? (Signal.) 4.
Lesson 2

a. Let’s review facts about volume.
   • Which is larger, a cup or a pint? (Signal.) *Pint.*
   • How many cups are in a pint? (Signal.) 2.
   • Which is larger, a pint or a quart? (Signal.) *Quart.*
   • How many pints are in a quart? (Signal.) 2.
   • How many cups are in a quart? (Signal.) 4.
   • Say the fact about the number of cups in a quart. (Signal.) *There are 4 cups in a quart.*
   • Say the fact about the number of pints in a quart. (Signal.) *There are 2 pints in a quart.*

b. Here’s a new fact: There are 4 quarts in a gallon. Everybody, say that fact. (Signal.) *There are 4 quarts in a gallon.*

c. Let’s review all our facts.
   • How many pints in a quart? (Signal.) 2.
   • How many quarts in a gallon? (Signal.) 4.
   • Which is larger, a gallon or a pint? (Signal.) *Gallon.*
   • Which is larger, a pint or a quart? (Signal.) *Quart.*
   • How many quarts in a gallon? (Signal.) 4.
   • Which is larger, a cup or a pint? (Signal.) *Pint.*
   (Repeat step c until firm.)

d. Number your paper from 1 to 9. Get ready to write answers to these items. √
   • 1. Which is larger, a quart or a gallon?
   • 2. Which is larger, a cup or a pint?
   • 3. How many cups are in a pint?
   • 4. How many pints are in a quart?
   • 5. How many quarts are in a gallon?
   • 6. Write the number problem to figure out the number of quarts in 15 gallons.
   • 7. Write the number problem to figure out the number of cups in 88 pints.
   • 8. Write the number problem to figure out the number of pints in 33 quarts.
   • 9. Write the number problem to figure out the number of cups in 40 pints.

e. Check your work.
   • Item 1. Which is larger, a quart or a gallon? (Signal.) *A gallon.*
   • Item 2. Which is larger, a cup or a pint? (Signal.) *A pint.*
• Item 3. How many cups are in a pint? (Signal.) 2.
• Item 4. How many pints are in a quart? (Signal.) 2.
• Item 5. How many quarts are in a gallon? (Signal.) 4.
• Item 6. What’s the number problem to figure out the number of quarts in 15 gallons? $15 \times 4$ [or $4 \times 15$].
• Item 7. What’s the number problem to figure out the number of cups in 88 pints? (Signal.) $88 \times 2$ [or $2 \times 88$].
• Item 8. What’s the number problem to figure out the number of pints in 33 quarts? (Signal.) $33 \times 2$ [or $2 \times 33$].
• Item 9. What’s the number problem to figure out the number of cups in 40 pints? (Signal.) $40 \times 2$ [or $2 \times 40$].
Lesson 3

a. Let’s review the facts about volume.
   • How many cups are in a pint? (Signal.) 2.
   • How many cups are in a quart? (Signal.) 4.
   • How many pints are in a quart? (Signal.) 2.
   • How many quarts are in a gallon? (Signal.) 4.
   (Repeat step a until firm.)

b. Here are new facts about volume: The metric unit that is almost the same size as a quart is a liter. A liter is just a tiny bit larger than a quart.
   • What’s the metric unit that is almost the same size as a quart? (Signal.) Liter.
   • So about how many cups are in one liter? (Signal.) 4.
   • About how many pints are in one liter? (Signal.) 2.
   • About how many liters are in one gallon? (Signal.) 4.

c. Number your paper from 1 to 7. Get ready to write answers to these items. √
   • 1. How many quarts are in a gallon?
   • 2. How many pints are in a quart?
   • 3. How many cups are in a pint?
   • 4. What’s the name of the metric unit that is almost the same size as a quart?
   • 5. Which is slightly larger, a quart or a liter?
   • 6. Write the number problem to figure out the number of quarts in 56 gallons.
   • 7. Write the number problem to figure out the number of cups in 23 quarts.

d. Check your work.
   • Item 1. How many quarts are in a gallon? (Signal.) 4.
   • Item 2. How many pints are in a quart? (Signal.) 2.
   • Item 3. How many cups are in a pint? (Signal.) 2.
   • Item 4. What’s the name of the metric unit that is almost the same size as a quart? (Signal.) Liter.
   • Item 5. Which is slightly larger, a quart or a liter? (Signal.) Liter.
   • Item 6. What’s the number problem to figure out the number of quarts in 56 gallons? (Signal.) $56 \times 4$ [or $4 \times 56$].
   • Item 7. What’s the number problem to figure out the number of cups in 23 quarts? (Signal.) $23 \times 4$ [or $4 \times 23$].
Lesson 4

REGULAR LESSON/MASTERY TEST • FRIDAY REVIEW

a. Let’s see how much you remember.
   • How many pints are in a quart? (Signal.) 2.
   • How many quarts are in a gallon? (Signal.) 4.
   • How many cups are in a pint? (Signal.) 2.
   • Is a liter about the same size as a quart or as a gallon? (Signal.) Quart.
   • Which is slightly larger, a quart or a liter? (Signal.) A liter.
      (Repeat step a until firm.)

b. Here’s a fact: There are 1,000 milliliters in a liter.
   • Once more: There are 1,000 milliliters in a liter. Say that fact. (Signal.) There are 1,000 milliliters in a liter.
      A milliliter is a cube that is one centimeter on each edge. A milliliter is one centimeter wide, one centimeter high, and one centimeter deep. That’s a cubic centimeter.
      Remember, a milliliter is a cubic centimeter. What’s another name for a milliliter? (Signal.) A cubic centimeter.
      • How many milliliters are in a liter? (Signal.) 1,000.
         (Repeat step b until firm.)

c. Number your paper from 1 to 5. Get ready to write answers to these items. ✓
   • 1. How many pints are in a quart?
   • 2. How many cups are in a pint?
   • 3. How many quarts are in a gallon?
   • 4. What unit of volume is about the same size as a quart?
   • 5. There are 1,000 smaller units in a liter. Write two names for the smaller unit.

d. Check your work.
   • Item 1. How many pints are in a quart? (Signal.) 2.
   • Item 2. How many cups are in a pint? (Signal.) 2.
   • Item 3. How many quarts are in a gallon? (Signal.) 4.
   • Item 4. What unit of volume is about the same size as a quart? (Signal.) A liter.
   • Item 5. There are 1,000 smaller units in a liter. Write two names for the smaller unit? (Signal.) Milliliter and cubic centimeter.
Lesson 5

REGULAR LESSON/MASTERY TEST • FRIDAY REVIEW

a. You’ve learned the name of a metric unit of volume that is nearly the same size as a quart. What’s that unit? (Signal.) A liter.
   • A liter is made up of a lot of smaller units. What’s the name of the smaller units? (Signal.) Milliliter.
   • How many milliliters are in a liter? (Signal.) 1,000.
   • A milliliter is a cubic something. What is it? (Signal.) A cubic centimeter.
   (Repeat step a until firm.)

b. Number your paper from 1-7. Get ready to write answers to these items. √
   • 1. How many cups are in a pint?
   • 2. How many pints are in a quart?
   • 3. How many quarts are in a gallon?
   • 4. What’s the name of the metric unit that is almost the same size as a quart?
   • 5. Which of those two units is slightly larger?
   • 6. How many milliliters are in a liter?
   • 7. A milliliter is also a cubic something. What is it?

c. Check your work.
   • Item 1. How many cups are in a pint? (Signal.) 2.
   • Item 2. How many pints are in a quart? (Signal.) 2.
   • Item 3. How many quarts are in a gallon? (Signal.) 4.
   • Item 4. What’s the name of the metric unit that is almost the same size as a quart? (Signal.) Liter.
   • Item 5. Which of those two units is slightly larger? (Signal.) A liter.
   • Item 6. How many milliliters are in a liter? (Signal.) 1,000.
   • Item 7. A milliliter is also a cubic something. What is it? (Signal.) Cubic centimeter.