Name: _____   Date: _____

1. Determine if each statement is true or false.

    a. Miles are a larger unit of measure than yards.

    b. Miles are a larger unit of measure than kilometers.

    c. Quarts are smaller units of measure than gallons.

    d. 1 inch is smaller than 1 centimeter.

2. Complete the following.

    a. 2 ft = _____ in   b. 5 yd = _____ ft

    c. 5 gal = _____ qt   d. 3 tons = _____ lb

    e. 2 m = _____ cm   f. 5 L = _____ mL

3. A restaurant made 56 cups of salsa. If the restaurant wants to determine the number of gallons of salsa they made, will the number of gallons be bigger or smaller than 56?

4. Lin knows that there are 4 quarts in a gallon. She wants to convert 6 quarts to gallons, but cannot decide if she should multiply 6 by 4 or divide 6 by 4 to find her answer. What should she do? Explain or show your reasoning. If you get stuck, consider drawing a double number line or using a table.

5. Alyssa is filling a large bucket with water. She fills a 1-liter container with water and then dumps it into the bucket. If the bucket holds 5 gallons of water, how many 1-liter containers will it take to fill the bucket?

$$1 \text{ liter} \approx 0.264 \text{ gallon}; \quad 1 \text{ gallon} \approx 3.785 \text{ liters}$$

6. Shaun is converting 5 miles into kilometers. He is not sure what to do, and he ends up with two different answers: 8.045km or 3.1 km. Which answer makes more sense? Help Shaun understand which answer is correct.

$$1 \text{ mile} \approx 1.609 \text{ kilometers}; \quad 1 \text{ kilometer} \approx 0.62 \text{ mile}$$

7. Jenny was asked to change 42 quarts into gallons. Circle all the expressions that can be used to do this conversion.

A. $42 \div 4$

B. $42 \div 0.25$

C. $42 \times \dfrac{1}{4}$

D. $\dfrac{42}{4}$

Sources

2. Utah Middle School Math Project *Ch 2: Percent, Division with Fractions, and Measurement Conversion Student Workbook*
— 2.3a Class Activity: Reasoning About Measurement Conversions, Activity 2
Ch 2: Percent, Division with Fractions, and Measurement Conversion Student Workbook of the Utah Middle School Math Project is made available by the University of Utah under the CC BY 4.0 license. Accessed Aug. 16, 2019, 12:49 p.m.. Modified by Fishtank Learning, Inc.

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