

Converting Customary Units of Weight and Capacity

Grade 5 Math • Section 8.2

Name: _____

Date: _____

Score: _____ / 14

Quick Review and Helpful Hints

Weight: 1 pound (lb) = 16 ounces (oz); 1 ton = 2,000 pounds.

Capacity: 1 cup (c) = 8 fluid ounces (fl oz); 1 pint (pt) = 2 cups; 1 quart (qt) = 2 pints; 1 gallon (gal) = 4 quarts.

Lightbulb icon: Larger to smaller → multiply. Smaller to larger → divide.

Example: Convert 3.5 pounds to ounces.

1 pound = 16 ounces. $3.5 \times 16 = 56$ ounces.

Lightbulb icon: **Answer:** 56 ounces

Practice Problems

Convert each measurement.

- | | | | |
|--------------------------|-------|-------------------------|-------|
| 1. 5 lb = _____ oz | _____ | 7. 3 pt = _____ c | _____ |
| 2. 48 oz = _____ lb | _____ | 8. 16 c = _____ pt | _____ |
| 3. 3 tons = _____ lb | _____ | 9. 2 gal = _____ c | _____ |
| 4. 6,000 lb = _____ tons | _____ | 10. 2.5 lb = _____ oz | _____ |
| 5. 4 gal = _____ qt | _____ | 11. 7 qt = _____ pt | _____ |
| 6. 12 qt = _____ gal | _____ | 12. 1.5 tons = _____ lb | _____ |

Word Problems

13. A recipe needs 3 quarts of milk. How many cups is that?

14. A box of apples weighs 2.25 pounds. What is the weight in ounces? If 8 boxes are shipped, what is the total weight in pounds?



Answer Keys

- | | |
|----------|------------------|
| 1. 80 | 8. 8 |
| 2. 3 | 9. 32 |
| 3. 6,000 | 10. 40 |
| 4. 3 | 11. 14 |
| 5. 16 | 12. 3,000 |
| 6. 3 | 13. 12 |
| 7. 6 | 14. 36 oz; 18 lb |

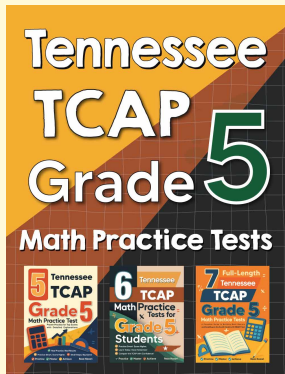
Step-by-Step Explanations

- Start with the main idea. For converting customary units of weight and capacity, 5 pounds times 16 ounces per pound is 80 ounces. Use the conversion fact first, then decide whether to multiply or divide.
- Keep the work tidy. For converting customary units of weight and capacity, $48 \div 16 = 3$ pounds. Moving from a larger unit to a smaller unit usually makes the number larger.
- Look at what the numbers mean. For converting customary units of weight and capacity, 3 tons times 2,000 pounds is 6,000 pounds. Keep the unit label with the answer so the conversion is complete.
- Use the setup first. For converting customary units of weight and capacity, $6,000 \div 2,000 = 3$ tons. Use the conversion fact first, then decide whether to multiply or divide.
- Check the size of the answer. For converting customary units of weight and capacity, 4 gallons times 4 quarts is 16 quarts. Moving from a larger unit to a smaller unit usually makes the number larger.
- Match the operation to the words. For converting customary units of weight and capacity, $12 \div 4 = 3$ gallons. Keep the unit label with the answer so the conversion is complete.
- Write the important values first. For converting customary units of weight and capacity, 3 pints times 2 cups is 6 cups. Use the conversion fact first, then decide whether to multiply or divide.
- Follow the pattern carefully. For converting customary units of weight and capacity, $16 \div 2 = 8$ pints. Moving from a larger unit to a smaller unit usually makes the number larger.
- Start with the main idea. For converting customary units of weight and capacity, 2 gallons is 8 quarts, and 8 quarts is 32 cups. Keep the unit label with the answer so the conversion is complete.
- Keep the work tidy. For converting customary units of weight and capacity, $2.5 \times 16 = 40$ ounces. Use the conversion fact first, then decide whether to multiply or divide.
- Look at what the numbers mean. For converting customary units of weight and capacity, 7 quarts times 2 pints per quart is 14 pints. Moving from a larger unit to a smaller unit usually makes the number larger.
- Use the setup first. For converting customary units of weight and capacity, $1.5 \times 2,000 = 3,000$ pounds. Keep the unit label with the answer so the conversion is complete.
- Check the size of the answer. For converting customary units of weight and capacity, 3 quarts times 4 cups per quart is 12 cups. Use the conversion fact first, then decide whether to multiply or divide.
- Match the operation to the words. For converting customary units of weight and capacity, $2.25 \times 16 = 36$ oz. Eight boxes weigh $2.25 \times 8 = 18$ lb. Moving from a larger unit to a smaller unit usually makes the number larger.



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