

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.

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.

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

2. 3

3. 6,000

4. 3

5. 16

6. 3

7. 6

8. 8

9. 32

10. 40

11. 14

12. 3,000

13. 12

14. 36 oz; 18 lb

Step-by-Step Explanations

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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.

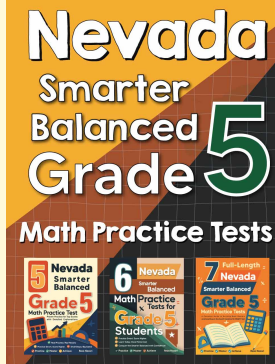
13. Check the size of the answer. For converting customary units of weight and capacity, 3 quarts times 4 cups per quart is 12 cups. Use the conversion fact first, then decide whether to multiply or divide.

14. 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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