

Computing Amounts of Liquid

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Complete the table.

1

Gallons	0	1	2	3	4	5
Quarts	0	4	8			

2

Quarts	1	2	3	5	8	13
Pints	2	4				

3

Quarts	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Cups		4				

Fill in the blanks. Use the above tables to help you.

4 $2 \text{ quarts} + 2 \text{ quarts} = \underline{\hspace{2cm}}$ quarts
 $2 \text{ quarts} + 2 \text{ quarts} = \underline{\hspace{2cm}}$ gallon

5 $3 \text{ pints} + 1 \text{ pint} = \underline{\hspace{2cm}}$ pints
 $3 \text{ pints} + 1 \text{ pint} = \underline{\hspace{2cm}}$ quarts

6 $1 \text{ gallon} = \underline{\hspace{2cm}}$ quarts
 $1 \text{ gallon} - 1 \text{ quart} = \underline{\hspace{2cm}}$ quarts

7 $1 \text{ quart} \times 8 = \underline{\hspace{2cm}}$ quarts
 $1 \text{ quart} \times 8 = \underline{\hspace{2cm}}$ gallons

8 $2 \text{ quarts} = \underline{\hspace{2cm}}$ pints
 $2 \text{ quarts} - 1 \text{ pint} = \underline{\hspace{2cm}}$ pints

9 $1 \text{ gallon} \times 3 = \underline{\hspace{2cm}}$ gallons
 $1 \text{ gallon} \times 3 = \underline{\hspace{2cm}}$ quarts

Complete the table.

10	Gallons	1	2	3	4	5	6
	Quarts	4					
	Pints	8					
	Cups	16					



11 Write a word problem that can be solved using the table above. Then solve it.

Fill in the blanks. Use the above table to help you.

12 $\frac{1}{2}$ gallon = _____ quarts

$\frac{1}{2}$ gallon = _____ pints

2 cups \times 4 = _____ pints

2 pints \div 2 = _____ cups

5 pints $-$ 2 cups = _____ cups

$\frac{1}{2}$ quart = _____ pint

8 quarts \div 2 = _____ gallon

1 gallon $-$ 1 cup = _____ cups

13	Liters	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
	Milliliters		1,000				

14 Challenge

1 liter $-$ $\frac{1}{2}$ liter = _____ mL

15 Challenge

2,500 mL + 1 liter = _____ mL

16 Challenge

3 liters \div 2 = _____ mL

17 Challenge

2,000 mL \times 2 = _____ liters