

Name _____

Date _____

1. Determine the following sums and differences. Show your work.

a. $5 \text{ qt} + 3 \text{ qt} = \underline{\hspace{2cm}} \text{ gal}$

b. $1 \text{ gal } 2 \text{ qt} + 2 \text{ qt} = \underline{\hspace{2cm}} \text{ gal}$

c. $1 \text{ gal} - 3 \text{ qt} = \underline{\hspace{2cm}} \text{ qt}$

d. $3 \text{ gal} - 2 \text{ qt} = \underline{\hspace{2cm}} \text{ gal} \underline{\hspace{2cm}} \text{ qt}$

e. $1 \text{ c} + 3 \text{ c} = \underline{\hspace{2cm}} \text{ qt}$

f. $2 \text{ qt } 3 \text{ c} + 5 \text{ c} = \underline{\hspace{2cm}} \text{ qt}$

g. $1 \text{ qt} - 1 \text{ pt} = \underline{\hspace{2cm}} \text{ pt}$

h. $6 \text{ qt} - 5 \text{ pt} = \underline{\hspace{2cm}} \text{ qt} \underline{\hspace{2cm}} \text{ pt}$

2. Find the following sums and differences. Show your work.

a. $4 \text{ gal } 2 \text{ qt} + 3 \text{ qt} = \underline{\hspace{2cm}} \text{ gal} \underline{\hspace{2cm}} \text{ qt}$

b. $12 \text{ gal } 2 \text{ qt} + 5 \text{ gal } 3 \text{ qt} = \underline{\hspace{2cm}} \text{ gal} \underline{\hspace{2cm}} \text{ qt}$

c. $7 \text{ gal } 2 \text{ pt} - 3 \text{ pt} = \underline{\hspace{2cm}} \text{ gal} \underline{\hspace{2cm}} \text{ pt}$

d. $11 \text{ gal } 3 \text{ pt} - 4 \text{ gal } 6 \text{ pt} = \underline{\hspace{2cm}} \text{ gal} \underline{\hspace{2cm}} \text{ pt}$

e. $12 \text{ qt } 5 \text{ c} + 6 \text{ c} = \underline{\hspace{2cm}} \text{ qt} \underline{\hspace{2cm}} \text{ c}$

f. $8 \text{ gal } 6 \text{ pt} + 5 \text{ gal } 4 \text{ pt} = \underline{\hspace{2cm}} \text{ gal} \underline{\hspace{2cm}} \text{ pt}$

3. The capacity of a bucket is 5 gallons. Right now, it contains 3 gallons 2 quarts of liquid. How much more liquid can the bucket hold?

4. Grace and Joyce follow the recipe in the table to make a homemade bubble solution.

a. How much solution does the recipe make?

Homemade Bubble Solution	
Ingredient	Amount
Water	2 gallons 3 pints
Dish Soap	2 quarts 1 cup
Corn Syrup	2 cups

b. How many more cups of solution would they need to fill a 4-gallon container?

Answer Key

1.
 - a. 2
 - b. 2
 - c. 1
 - d. 2, 2
 - e. 1
 - f. 4
 - g. 1
 - h. 3, 1
2.
 - a. 5, 1
 - b. 18, 1
 - c. 6, 7
 - d. 6, 5
 - e. 14, 3
 - f. 14, 2
3. 1 gallon 2 quarts, or 6 quarts
4.
 - a. 49 cups (or equivalent)
 - b. 15 cups