1. Organize the prices below from lowest to highest unit rate.

355 mL of pop	\$0.44
2 L of pop	\$1.39
1 L of pop	\$0.64



- 2. Jennifer is making a punch for her mother's birthday. The recipe calls for 2 cups of ginger ale, 4 cups of Sprite and, 5 cups of lemonade. If Jennifer needs to fill a punch bowl that holds 25 cups, how much of each will she need?
- 3. Tanya is a nurse. she needs to measure and administer the correct dose of medicine to her patients. 150 mg of medicine must be dissolved into 275 mL of water. If the patient requires a dose of 500 mg of medicine, how much water is needed? Round to the nearest millilitre.

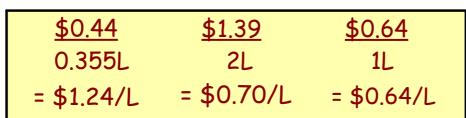


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Convert 355 ml to litres 355/1000 = 0.355 L

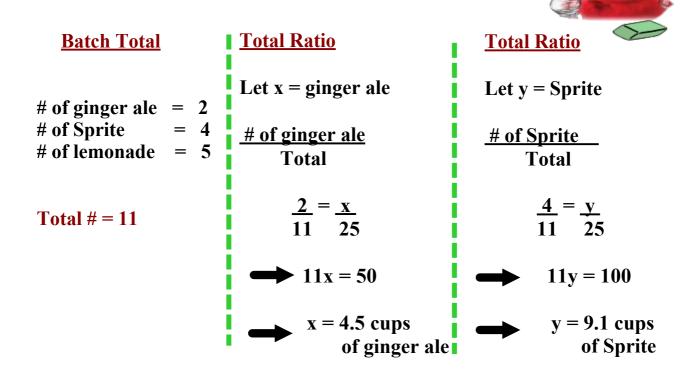


= \$0.64/L \$0.64

\$1.39 = \$0.70/L

355ml \$0.44 → = \$1.24/L

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Batch Total	Total Ratio	<u>Total Ratio</u>	Total Lemonade
# - 6 - : 1 - 2	Let x = ginger ale	Let y = Sprite	<u> </u>
# of ginger ale = 2 # of Sprite = 4 # of lemonade = 5	# of ginger ale Total	<u># of Sprite</u> Total	25 - 4.5 -9.1 = 11.4 11.4 Cups of
Total # = 11	$\frac{2}{11} = \frac{x}{25}$	$\frac{4}{11} = \frac{y}{25}$	Lemonade
	11x = 50	11y = 100	
	x = 4.5 cups	·	
	of ginger ale	y = 9.1 cups	
		of Sprite	
	•	l .	l

3. Tanya is a nurse. she needs to measure and administer the correct dose of medicine to her patients. 150 mg of medicine must be dissolved into 275 mL of water. If the patient requires a dose of 500 mg of medicine, how much water is needed? Round to the nearest millilitre.



Let
$$x = Water$$

Medicine (mg) Water (mL)

$$\frac{150}{275} = \frac{500}{x}$$

$$\longrightarrow$$
 150x = 137500

$$x = 917$$
 millilitres